

SEQ ID NO: 1110 GGTACTATTATACTAAAAGCTCCTACTGTGATGTGAAATGCTCATACTTTATA
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TGGAGTGTGAGTATGTTGAATCAGTAGTTTCACTTTAACTGTAAACAATTTCTTAGGACACCATT
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TGT

SEQ ID NO: 1111 GGTACTACAAGTTTAGTGGCTTCACGCAGAAGTTGGCAGGAGCATGGGCTTC
GGAGGCCTATAGCCCGCAGGGATTAAAGCCTGTGGTTTCCACAGAAGCACCACCTATCATATTTGC
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AGCTACAAAAGTTTTCAGAAAAGCTGATGGTGTGCCCGTCTACCTGAAACGAGGCCTGCCTGACC
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SEQ ID NO: 1112 CGAGGTACATGCTCTATCTGATGCTCGATGTGTGTTTGACATGGCTGGAGAAA
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SEQ ID NO: 1113 CGAGGACGCGGGATTGCAACAAGAAAAGCCAGATTTCTGCTTTTTGGAAGAA
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SEQ ID NO: 1114 NCTTTTAGTAACGACCCAATCTAAGGAGCCTTGGAGGCTTGTGAAAAAGACG
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GGGC

SEQ ID NO: 1115 ACGCGGGAGAACTGCGCGAGAAGCGAGACCTTAGAAGGCAGCGCTTCCCGC
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SEQ ID NO: 1116 ACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAACACCACCAGCGGTCTTA
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SEQ ID NO: 1117 CGAGGTACGGGTATCACTTTCCGGAGCTGGTGAAGATCATCAACGACAATGC
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SEQ ID NO: 1118 NCTGAAATTAGTAGAAGCTAGGCCAATGATCCATGAATTGTAACTGAAGGG
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AGTGAGTGAGGCTTGAAAACACACCACATTGAAAATCCTGCCAGCAGCAGCCCGCAGCCCGCCA
ACAGCAGCGCTGTTAGTTGAGCTAAGTAAAGCACTGCTTCGTAGAAAACCATAACATCGGCCATC
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GGANCTGGGTNAAANCNNCTTTTTTNTCTGGCCGACCCCTAGGGNGAATTCACCCCTGGNGGC
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SEQ ID NO: 1119 ACGACAGCAGACTCCTCCAGGGCTCTGTCCACTTGCAGGAAATTCAGTTCAT
GAAGATAAGAAGTTTCTTGACAAATACATGCCCCAGTTTCATGAAACATCTTCATTATAGAATAATT
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TGGGTTTTTTTTCTCACGCTGATGGCTTTGGCAGAACCCTTCGGTTACTTGCATCTNCAGAATGANTA
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ATCAACCGN

SEQ ID NO: 1120 NCTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGNNAACTGGAAGAG
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GC

SEQ ID NO: 1121 ACGCGGGGCTAGTGGCTTGAGGTATCCGCAGGAGCGGCCGGGTGGCGGGAG
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GAGACTTCGTGGCAGAGCCCATGGGGGAGAAAGCCAGTGGGGAGCCTGGCTGGGATTGGTGAAGT
CCTGGGTAAAGAGCTGGAGGAAAGGGGTTTTGACAAGGCCTATGTTGTCCTTGCCAGTTTCTGGT
GCTAAAGAAAGATGAAGACCTCTTCCGGGAATGGCTGAAAGACACTTGTGGCGCCAACGCCAAGC
AGTCCCGGGACTGCTTCGGATGCCTTCNAGAGTGGTGCAGCGCCTTCTGTGATGCTCTCTGGGAA
GCTCTCAATCCCCACCCTCATCCAGAGTTTGCAGCCGAGTANGGACTCCTCCCTGTCTCTACGAA
GAAAAAGATTGCTATTGTCTGACCTTCGGCCGCGACCCCCC

SEQ ID NO: 1122 ACCTTGACTTAAATCCAAGAGCAAAAAGTTAAGACTCTCCTCCTCTATTTTTGG
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ANGGAAG

SEQ ID NO: 1123 ACATGACCTAATTTTTACATCATAGTAAAAACAGGCCCTATGGAGAGAGGACA
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CCTCGTATTACCACCATTTCCAATATTGTTCTGTGTGCCACTAGTCGCCATCTCCACACATTCATCTA
TCACAAGGTTTCATAAAGGGATCAAATCCCCGCAATATTCTTGGACATGTCTGCCACCATTTAATT
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SEQ ID NO: 1124 CGAGGTACTTGCCCCCTTCCCCAGAAAAGCGGGACTTGCTGCTAAGGGTGAAG
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SEQ ID NO: 1125 CAAAATAACAGGTTATGAGGAAATGAGCGATATATGAACGGGCATAAAAAACA
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TGGGGGGG

SEQ ID NO: 1126 ACGCGGGGACTATGGCTTCCAGCACTGTCCCGGTGAGCGCTGCTGGCTCGGC
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SEQ ID NO: 1127 ACAATTCTTCACAGACACATGAAGCAGAACATTTGAAAATCAAACTTACTT
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SEQ ID NO: 1128 CGCGGGGCTCTTCCCTGCTCTCCATCATGGCGCAGGATCAAGGTGAAAAGGAG
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SEQ ID NO: 1129 CGAGGTACGCGGGACTCTTATTCTGCGCCTGCGCGCGGCTACAGCACGGTTC
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SEQ ID NO: 1130 ACAACATCAGTNCAATAAATTCACAAAACCTATATTACAGCTAGTTAATCAGT
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SEQ ID NO: 1131 GGTACTCAAAAATCTTCCCCTACTCAAATTCAGAAATCTGTTACTAGATGTGT
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SEQ ID NO: 1132 ACGCGGGATTGTNGGAGTCCTGTGCACAGATTACAAGGACTTAATCTGGGT
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SEQ ID NO: 1133 ACCTAGCTCAGAACTGAGGGTTTTACTTTTTGGAAGAAGTCAGGAGTGGATG
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SEQ ID NO: 1134 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAGGATTTTAAA
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SEQ ID NO: 1135 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTNGAANATGGTTTATTTTAC
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SEQ ID NO: 1136 ACGCGGGTAAGATAAACTATTTAGGAAAAAAGTCTGACGAATTTAATGCATG
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SEQ ID NO: 1137 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTNGACT
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SEQ ID NO: 1138 GCGTGGTCGCGCCGAGGTACTAGTCTCTACTTGGGGACAAGAAAATAGAATA
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SEQ ID NO: 1139 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAATCAAAAGCAGGGT
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SEQ ID NO: 1140 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGANATGGAGTTTCGCTCTGTTGTCCAGGCT
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SEQ ID NO: 1141 ACCTGAGATCCTGGTGCACAACATAGTGATCTTCATGCGAACTTCAGTGAAG
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SEQ ID NO: 1142 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAAATTAAATACTTTTAATTA
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CCGACCNG

SEQ ID NO: 1143 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTNAA
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SEQ ID NO: 1144 GGTACTCAGAACTGTGTAAAAGTTAACCACCAAAACCATGTTTTAAAGAAAA
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SEQ ID NO: 1145 ACTAAGCGGCCTTGGATACCTGGCCGCGGGATGCTGGGCGGCGTCAGGTGAG
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N

SEQ ID NO: 1146 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAGGCTTGNGTTTTATTCAAGGCTT
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G

SEQ ID NO: 1147 ACACTGTTGGTGTATATGGGGATGGGGTTCTCGGTAATTTTGTATTATTATTA
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ATTNCCGC

SEQ ID NO: 1148 ACCATTTGGCCCTTTTGCCTTCATGCCAGGAAAACTTGTCATACTAATGAAG
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SEQ ID NO: 1149 ACAAAAACTGTGACATCAAGAAGGGCAGGAGAAACAAAAGGCATTTCTAT
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SEQ ID NO: 1150 ACATGAATTAGAAGCGTGCATCTAGGATTATGGCCAACTGTTTTAAAAATG
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SEQ ID NO: 1151 ACTACCACAGCCTTTAGGTGACATTGATTTATAACTTGGTCACAATTCAGTGC
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SEQ ID NO: 1152 ACCAGTGAGAAGACAGCTTTGCAGTCACACTGGAGATCAGAGTTCCAGGCTG
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SEQ ID NO: 1153 NGTACTCAGCTCTGTTCTCCTACTCAGGCTGGGACACCCTCAACTATGTCACT
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SEQ ID NO: 1154 GGTACAAATATTTAAGAGTGTTGATTGGGAGTAAGGGAATGTCAACTGCCAA
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SEQ ID NO: 1155 ACTGAGAACAATTTAACTCTGAACACAAAAAGTTTAGTGAATTTGCTACTGTTT
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SEQ ID NO: 1156 TCGAGCGGGCCGCCCGGCCAGGTCTGCAAAGACCCATCTTCCCTCCAGTTAA
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SEQ ID NO: 1157 ACCTAGTGGCTGCTGTCTTGTGTTTGGCTCCATTTTTTTTTCAGCTTCTTATCCAGTTT
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SEQ ID NO: 1158 ACACCTTGAAACCAAATTTCTAAACTTGTTTTCTTAAAAAATAGTTGTTGTA
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SEQ ID NO: 1159 ACCCTTTAAGATATCCATCTTTTTCTTTTTTAACCCTAATCTTTCAGTTGAAAGA
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SEQ ID NO: 1160 ACACGTTCTTGTTGTCTGGCTCGGCAACAAACACCACTTCTGGCCAGTCTTC
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SEQ ID NO: 1161 ACGCGGGACAGCACGGTTCGTTTTCTTTAGTCAGGAAGGACGTTGGTGTTG
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SEQ ID NO: 1162 GGTACAGCTTTTGTCCCAGTTTGTCTCTCCATTTACTGGATGCATTTATGGAAG
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SEQ ID NO: 1163 ACGCGGGGGGAAATGCGTGTTCTAGCTTTCTGTGTGCTTAGGTGCCCGAGCTA
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SEQ ID NO: 1165 CGAGGTACATGAAAAAAATAAAAAATTTGATCATGAATCAAACCCTGGAAC
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SEQ ID NO: 1168 CGAGGTACATCTTATGTCCAGTTTAAAGAAGATAGCCATCCTTTTGATCTTGG
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SEQ ID NO: 1169 ACTTTCCTGCCTTTTAGTTTCTGTGCACAGCCCCCTAAGTCAACTTAGCATTTTC
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SEQ ID NO: 1181 NCCGAGGTACGCGGGGAGAAGCTTGGACCGCATCCTANCCGCCGACTCACAC
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SEQ ID NO: 1196 GGTACTTTACTGAAAGAACACTAGTGTTCTTTCCTTCCGTTGTGAAAAAGT
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SEQ ID NO: 1197 GGTACTGATTTCCATCGTTGCATTTACAACCTGCTACAAAAATGCCAGCACTCC
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SEQ ID NO: 1198 GGTACCAAGGGATGGAAGAAGTAAATATAGCTCAGGTAGCACTTTATACTCA
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SEQ ID NO: 1199 GGGACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTCAGCATTGNGTTTTACTTTTT
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SEQ ID NO: 1200 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTAAAATTATTTTATTTTTTATAATTT
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SEQ ID NO: 1201 ACGCGGGGTTTTTACTTGATATAAATGTATTTTACTGTGATAGTCCAAGTG
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SEQ ID NO: 1202 ACTTTAGTAAAGACATTCATCTCAGTCATTTCTCTCTCCAGCTTGACCTTAG
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TCTAACAAAGTATATGTGGTGAGATTCCAAAAAATGTTTGAAGATGCATTTTCTTTNCTTCATTCA
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SEQ ID NO: 1203 ACTGAACACAATATTTGTGTTTTTATTATTTATGCCACGTCAGTGGGGCAAGA
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SEQ ID NO: 1204 GGTACTCACTTTTTCCAAATGATCCTAGTAATTGCCTAGAAATATCTTTCTCTT
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GCTTTACTACTGTGGAAGACAAGTGTTTAATAAAAGATTACATTCCAAAAAATAAAAAAAAAA
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SEQ ID NO: 1205 ACCAAAGGATAGCTGTTCTGTTTAAAGTAGGGACCTCTCATGGCCTACAGGCTT
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SEQ ID NO: 1206 ACGCTTTTACCCCCACCCCCAAGTCCTGGGAGAAATGCAGGCAACACTGAGA
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SEQ ID NO: 1207 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTNAAAAATAATATTTAAATT
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SEQ ID NO: 1208 ACCCAAATACACAAAAGGTGTCCCTTTAAGGAAAAATAAGAATTAAGTTTAA
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SEQ ID NO: 1209 ACAAGTGTATACAGGCACAAAACATGTTTTTAACAAAAGAAGGAGGAAACACT
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SEQ ID NO: 1210 GGTACGGAGATGTCTTATGGTGAAATTGAAGGTAAATTCTTGGGACCTAGAG
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SEQ ID NO: 1211 GGTACGCGGGGGTGGCTACCATGCTCTCTCGCGCGGGTGTGCTGGGCTGTC
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SEQ ID NO: 1212 ACTGATACAATGGATCAAGTTCTTAAAAATTTTAAAAAGAATAAATGATGCTG
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SEQ ID NO: 1213 ACGCGGGGACAACTTTAGAGACAGCAGAGCACACAAGCTTCTAGGACAA
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SEQ ID NO: 1214 ACATTTTCATAAAATATGAAGGGATAACTACAAACTGGAGTAAAAATGACGG
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SEQ ID NO: 1215 GGTACCTTCATGAAAACGGTATTATACACCGTGACTTAAAGCCAGAGAATGT
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SEQ ID NO: 1216 GGACGATCGAAGGGACTATGTCTTCATTGAATTTTGTGTTGAAGACAGTAAG
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SEQ ID NO: 1217 ACGCGGGGATGTAATTTTAAAATACAATGCAGACGAAGCTAGAAGTCTGAAG
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SEQ ID NO: 1218 ACGCGGGAAACACAATTTCAATGCAAGCTCAGTTTCTCTGGTGTTCAAAACT
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SEQ ID NO: 1219 GGTACTGAAGGACAAAACTTGATGGCCTCAAAAGGTTCTTGAACACCACT
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CC

SEQ ID NO: 1220 GGTACATGGTGGGTGGGTTATAAATATTGGGACTTAAGGCAGCTTGTCTATG
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SEQ ID NO: 1221 ACTTCCTGAGACATGGATCTGGGATTTGGTGGTGGTAAACTCAGCAGGTGT
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SEQ ID NO: 1222 AATAAAGAACCTCTATCAGTGAGACTTCTCATTTTATAGCAAATACATTTTTG
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SEQ ID NO: 1223 ACAAGTTCGGCTTTGAGCTTCCTCAGGGGCCTCTGGGAACATCCTTCAAAGG
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SEQ ID NO: 1224 GGTACTATGATCCAAACACCAAAAGCTGTGCAAGATTCTGGTATGGAGGTTG
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SEQ ID NO: 1225 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATACAANAACCTATGTTTATTGCAA
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SEQ ID NO: 1226 ACTCTGGATCCCAAGGTGACTGGTTGTTAATCGTGTGCATAGAACGAGCCA
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SEQ ID NO: 1227 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCGGTTCCACACCTGCCCTTTATT
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SEQ ID NO: 1229 ACAGACAAAGTGGGAGGTTTTATTTCTTGGTCTCTTCCCTCCTTGGATAAAGTC
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SEQ ID NO: 1231 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAAANATGGGGTTTCACCATN
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SEQ ID NO: 1232 ACCCCTTAACCCCTTCTCCTTCACCCTTAGCAGCAAGTCCCACTTTTCTAGGG
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SEQ ID NO: 1233 ACTACTGTCCAGCCTCCTCAGGAGAACCAACATCCAGTATACCTTCACCAG
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SEQ ID NO: 1234 GGNACTTTNNTNTTTTTTTTTTTTTTTTTTTTTAGGGGGTTCATCGTCANANCTG
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SEQ ID NO: 1235 GGACGTCGGGGACGTCGCGAGCGTCACACAGAAACATATCCAGGAGTGGGG
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SEQ ID NO: 1236 GGACGCGGGGGAGTCAGTCCCAGTCAGGACACAGCATGGACATGAGGGTCC
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SEQ ID NO: 1237 GGTACCATCCCTCCATATTGCCACCAAGATGCGTGAATACACCAGGCTCAT
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SEQ ID NO: 1238 GGTACTTCTGTCTTCCAGTTTTCCTTCACCAAATCGCACTGGCTCCTGGACTCT
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SEQ ID NO: 1239 ACATGGGTAATCTGTCCCCATGACCCAAACATCTCCCATAGGCTCCACCTCCA
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SEQ ID NO: 1240 TCCTCCCGCCGCCAATATGCCGAAAGGAAAGAAGGCCAAGGGAAAGAAGG
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SEQ ID NO: 1241 CCGGGCAGGTACATAGGTAACCAAAGTATATAGCTTATTTGGTGAATCTTCAT
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SEQ ID NO: 1247 ACGCGGGCACCAGAAAACTAATGAGATTTCTCTGGAATACAAGCTGATATT
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SEQ ID NO: 1248 GGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGGACATGCAAAAAGACAA
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ANAAAACT

SEQ ID NO: 1249 ACAACACTATTTTCATTATCTGGATTGTCCATGCTAGAAATAAATTCATCCTTG
TTAATTGTATCCAAACCATATTCTTCAGCTAAGGATCGACATCTTACCCTCGAAGAAATGCAGAA
TTGCTGCAGAGTAATTTTAATTCTTTCTCTGAAATGGACTCTGGTGCCTGGCCAATGGACTGCAGC
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SEQ ID NO: 1250 ACTNTNTTTTTTTTTTTTTTTTTTAAACANCAAAGANCGGGAGCACGATTGGGT
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SEQ ID NO: 1251 ACAACACCATCTGGCTTCTCTATTTTGAAACTCCACACCAGGTTAATCTTGTT
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SEQ ID NO: 1252 ACATTTCTACCGAAGACTTCCC GCCGAAGTGTCTGCCAGTGAGATAAGTGTTA
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SEQ ID NO: 1253 ACGCGGGGGCAATGCAACAGTCTCATTTTCCCATGACGCATGGCAACACCGG
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SEQ ID NO: 1254 ACCCAGACACAGAAAGTTTTAGGGTAAATAGTAAACTACAAATACCCTCTTG
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CCG

SEQ ID NO: 1255 GGTACCGGATTCTGTCTTTAACCCTCCCTTCGTGTTTCCCCCAATGTTTAAAA
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SEQ ID NO: 1256 ACCCACTGGGAGATGATTGAATTATGGGAGCGGGTCTTTCCCATGCTGTTCTC
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SEQ ID NO: 1257 ACCTAGAAGAGAGGGCGGGTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTTCAT
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SEQ ID NO: 1258 ACAGTTGGAGGTGTTCTTAGGTGGGCGGATTGCTTGAGGTGAGGAGTTCAAG
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SEQ ID NO: 1259 ACAAGTCCAAATTTCTTACTTTATGGATGTAAAATGTCCAGGTTGCTACAAGA
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SEQ ID NO: 1260 ACTTTTTTTTTTTCAAACCATGCTATTGAATCAAGAAAAAGTAGAAAAACTGAA
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SEQ ID NO: 1262 GGTACAGACATTTTCAAAGTTGCCAGTGTTACTTTAATTGGACTGCCTTCGTA
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SEQ ID NO: 1264 ACTGGCTGGCCTATGTCTGGGTCTGCTCAAGAGCAATAATTGTTTCAATGAC
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SEQ ID NO: 1265 GGTACGCGGGGAGAAGGGGAAGAATATGGAGGATAGGAGAGGGTGATGATG
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SEQ ID NO: 1266 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNCAAAANATANAATCATANAATTTA
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SEQ ID NO: 1268 GGTACTAGCCGGACTTGGATTTTCTGGAAAGATTTCAGTTGAGGAACGGGAA
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SEQ ID NO: 1273 GGTACTATGATCCAAACACCAAAAGCTGTGCAAGATTCTGGTATGGAGGTTG
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SEQ ID NO: 1274 ACACAGGCTGCTACCCAAGTTGTTCTGAATGTTCTGAAACAAGAGTAACAT
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SEQ ID NO: 1275 ACCCTTGGAAGATGGGAAAGGTGAGGGAAATATTTGAAGCAGGGTCAGAAC
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SEQ ID NO: 1276 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGTANAATATAAAAGAAATTGAGAGCA
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CGTACCT

SEQ ID NO: 1277 ACGCGGGATTGATAATAGGGTGCATTGTTGCTTTTACTTTATTTACCTTTTGG
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SEQ ID NO: 1278 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTCTCAAANANAATTTTAATCT
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SEQ ID NO: 1279 GGTACGCATCGAAAGGATTGACGGCGTGAGTTTACTGGTGCAGAGAACCATT
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SEQ ID NO: 1280 ACAATTACCCACCACTGGATTGACTCAGAGAGGACCCCCAGAGGGTGTCTC
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SEQ ID NO: 1281 ACTTTTTTTTTTTTTTTTTTTTTTTGGGCTTATTTTCTTTGGAGGGAGGGTCTTGCT
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SEQ ID NO: 1282 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGANATGGAGTCTTGTTCTGTANC
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SEQ ID NO: 1283 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCCACACCTGCCCTTTATTGGTCTC
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SEQ ID NO: 1284 ACGCGGGGAGCGTCTCGAAACCACGAGCAAGTGAGCAGATCCTCCGAGGC
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SEQ ID NO: 1285 ACTGGAATTTGTCATATCTGTAGAGTGTATCTAAATATTCTGCCTAAAACCA
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SEQ ID NO: 1287 ACCCAAATAGCTAAGTTTAAAAATTTAAGAAATCCGAGAATTAGTTTAAAAAT
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SEQ ID NO: 1288 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTCCTTCCCCAACAGCAGTTGGAA
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SEQ ID NO: 1289 GGTACCATAAGGAGACACAAGAAGAAAGGTGACACTAAGGCTACAGTGCAC
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SEQ ID NO: 1290 ACACACCCAGGAAATTTGTCATCCACCCTGAGAGTAACAACCTTATTATCATT
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SEQ ID NO: 1291 ACAGGGGCAGTCAGTGGAGGGCGAGTGGTTTTCGGAAAAAAAAAAAAAGAAAA
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ATCTGTGCTGGACTTTAAAAAAACAATTCAGGACCAATTTTTTCTCAGTGTGTGTGTTTATTCCTT
ATAGG

SEQ ID NO: 1292 GGTACAAGCTTTTGTCCAAATGGCACAGTGAGCACAAATGAGTTCCTGTGT
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SEQ ID NO: 1293 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGAAAAGATATATATATATATAT
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CCA

SEQ ID NO: 1294 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGAAAAGATATATATATATATAT
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SEQ ID NO: 1295 GGTACGCGGGGAAGTCGCTTGTGTATGAACGCAGCGGGCGGACCTGTGAGGGG
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AAAAA

SEQ ID NO: 1296 ACGTCATAGAAATAGCAGCTCCCACCTTGTTCATCAATGGTATCAAATTTGGTA
AGAACAATGCCATCAATGAGCCGAGGTGTCTGAGCCATAGAATGGTCAGCCAAGGCTCTGTTGAA
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SEQ ID NO: 1297 GGTACTTTTTTTTTTTTTTTTTTTTTTTTCCACACCTGCCCTTTATTGGTCTCTTNT
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CTTGATGTCAGGCTCAATGTTGATGGTTGGGAAGGTGCGGCTGTANCGTCGGAAGGGCTCTCCCTC
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SEQ ID NO: 1298 AATTGCCCCCTTAGGCGTGGTTCGGCGGCCGAGGTACAAAGGCAAAAGGACCA
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SEQ ID NO: 1299 GGTACAATGTGGGGCAGGCACCAGACTGGGCAGGGAAAGGCCTCGGATACC
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TNTT

SEQ ID NO: 1300 ACACTCCAGATATAACTGGGACTTCTGTGTAGATCTGAACGAGTGCAACCA
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SEQ ID NO: 1301 ACGCGGGGCTCTTTCCCTGCCGCGCCGAGCCGCGCGGAGGCGGAGGCTTGG
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GGAGGT

SEQ ID NO: 1302 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAGGAAAATCAATGTTTTCTTTA
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SEQ ID NO: 1303 GGTACGGGAGTTTCTTGTTAAATCCAGAATCAGGATACAATGTCTCTTTGCTA
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SEQ ID NO: 1304 ACTGGATGGCCCCACAAGATGCTGCCACTTTAATAAGGCTGCAATACACTGT
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SEQ ID NO: 1305 GGTACTTTTTTTTTTTTTTTTTTTTTTTGGTNTTAATGATGTTTTTAATTGACAAT
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SEQ ID NO: 1306 GGTACTTTTTTTTTTTTTTTTTTTTTTTTGANACTGTTCTTTTATTCTGAGTCA
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SEQ ID NO: 1307 GGTACTTGCCCACTTTTCTCTTGTTGGGCTGTTCTAGAAATCCATTATGTTCT
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SEQ ID NO: 1308 ACTAGGAAAAGATACAGTTACCAAAGATAATGGCATCCGTCCTTCCTCACTG
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SEQ ID NO: 1309 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTINGCTGGGGTATTCATTTCTGCATGTATAG
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SEQ ID NO: 1310 GGTACGAAAACAGAACCAATCTAAAAATGGCTGATGTTACTTTAGGAGCCTG
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SEQ ID NO: 1311 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGAAAGNGTAAATTTATTTAATACCA
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SEQ ID NO: 1312 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGCATTTTANACTCCACAT
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SEQ ID NO: 1313 ACAAAGTAATGACCATAATACCTTGTCTAAATCAGTAGCAGGGCTTCATGGC
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SEQ ID NO: 1314 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGNGGTCAGGGTTTATTAAGTANA
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SEQ ID NO: 1315 ACGCGGGATTTTCGCCATGGATGAGGATGGGGACGAGAGCATTACAAAACCTGA
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SEQ ID NO: 1316 GGTACTGCCAGATTCTGTCTAAATGTCTGTCATGTCCAGATTTACTTTGCTTCTG
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SEQ ID NO: 1317 ACTGCACCAAAGCCTGGGCCTTGGCCTTGAGCATTCCAAAGCCCACGGTCTC
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SEQ ID NO: 1318 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGGGAGCANATTGGGGTAATAAAATGT
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SEQ ID NO: 1319 GGTACGCGGGGAGGAGTGAGAGAGCTGCTGGATATGCGGAGGGAGCTGGGCG
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SEQ ID NO: 1320 GGTACTGACAAAGTCCTGAACTACAATGAGAGGAAACACATTGCCCTACTT
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GATT

SEQ ID NO: 1321 AATTCGCCCTTAGCGNGGTGCGNGGCGGAGGTACNGCGGGGCTCACTCTGCGC
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CTCAA

SEQ ID NO: 1322 ACGCGGGTCCTTGTCCAGTGAAACACCCTCGGCTGGGAAGTCAGTTCGTTCTC
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SEQ ID NO: 1323 ACCAAAAAGAAAAAGAAAAAGGAAAGGTTTCTACTGCTGTATTATCTATAACT
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SEQ ID NO: 1324 GGTACACAGTATTTTTTATATCTATGTTTTCTGTTCTCTGGCGCAAGATATTC
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SEQ ID NO: 1325 ACGCGGGGGGCAGCAGTGGACCTATGAGCAGAGGAAAAATCGTGGAGTTTAC
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SEQ ID NO: 1326 GGTACCACCGCAAAGCCCTGTGAGCGTCTACAGACAGCTCACCATTTTTGTCC
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SEQ ID NO: 1328 ACCAGCACACCGGCGCCGCTCTGGACTGCGCCTTCTACGATCCAACGCATGC
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SEQ ID NO: 1330 GGTACCGGAAGAAGCAGCTGGCAAAGCAGCTCCCTGCACATGACCAGGACC
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SEQ ID NO: 1333 GGTACGAGCAACTCAAGGGCGAGTGGAACCGTAAAAGCCCCAATCTTAGCA
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SEQ ID NO: 1334 ACTTTGATGACTGCATGCAGCTTTTGGCGCAGACATTCCCGTTTGTAGATGAC
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SEQ ID NO: 1339 ACTTTGGGGCTCCAAAGATCCTTTACTG
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SEQ ID NO: 1341 GGTACGAGGACTGGATGGAAAGGTGATTTGTGGCTCCCGAGTGAGGGTTGAA
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SEQ ID NO: 1342 GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTGGACAGNGGTTTTATTGGTAAAGATA
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SEQ ID NO: 1344 ACGCGGGGGACGCCGAGACAAACCGGACCCGCAACCACCATGAACAGCAAA
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SEQ ID NO: 1345 ACCACATATCCCATTGACTTCTATTTGTGTGAAATGGCCTTTCCCCGGGTCA
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SEQ ID NO: 1346 ACTCAAAGGTGATATTTGCTTTTTTCAATGCTTCAGGGGAAAAATCCTTTTCT
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SEQ ID NO: 1347 GGTACGTTTTTGCCAACCTATGAAATGGCCGTGAAAAATGCCTGAAAAAGAACC
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SEQ ID NO: 1364 GGTACTGGCCACACCAATCTCAGGACCAGCATTAATATGAACTCCACAATCT
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SEQ ID NO: 1365 GGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCAGATC
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SEQ ID NO: 1366 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGCCATGCAACAATGTCTTTTATTATGT
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SEQ ID NO: 1367 GGTACGCGGGGGAGTTCGACACACCATGCCGACTGTCAGCGTGAAGCGTGAT
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SEQ ID NO: 1368 GGTACAGACATTTTCAAAGTTGCCAGTGTTACTTTAATTGGACTGCCTTCGTA
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SEQ ID NO: 1371 ACGCGGGAGATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTC
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SEQ ID NO: 1375 GGTACTTTTTTTTTTTTTTTTTTTTTTTTAGTANANACATGGTTTCGCCATGTTG
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SEQ ID NO: 1394 GGTACGCGGGGGTCTTGTCCAGTGAAACACCCTCGGCTGGGAAGTCAGTTC
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AAGAGAATCAGATTCCTGAAGAGGCAGGAAGCAGTGGCTTANGAAAAGCAAAGAGAAAAGCATG
TCCTTTGCAACCTGATCACACAAAATGATGAAAAAGATAAGAACTTTCTCATTTCATCTTTTGAATA
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CTTNGTTTNAACAGGCATTTAATTNAAAATTTTAGGGTTTAAAATTTANGATGTTNAAAAGTA
TGNTTGTGNAANATTTGGNAAATTTGTAGGAACATAAATTGATGGNAAACCTTNACCTTANNTATGT
CAAATTTAATGNCATTGTTGTGGNNTTCTNNTTCCCCAAAATTAAGTGTCTTNTCTTTTGTNTT

SEQ ID NO: 1395 GGTACTTTTTTCTTTTTTTTTTTTTTTTTTNGGCTTTTAGTAANAGGTGCCTAT
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[illegible]

SEQ ID NO: 1397 ACCCTAAAACCTAGTATCTTTTTCTCTTCTATGGAAAAATCCGAAGGTCTAAAC
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GGAAACANCCNGTTTTTANAANANTTTTAAAAATNNNCCTGCTTGGTACC

SEQ ID NO: 1398 ACAAAGACAGCACAAGAAAAAAACAGATTTCATAAAAAATAGTGATTCTGGTT
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NTT

SEQ ID NO: 1399 ACTCGTATTTGAGCTTCAAAGTAAAAATAAAGCAGAGGACAAACGCCTGTCA
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SEQ ID NO: 1400 ACTGGTAAAAAGAAAAAAGAAAAAACCCACAGAATCACAGAATTCATGTTCTC
ACAGTAGCCAGAAGCTAAAATAATGTGCTTCTTTATTGCACGTCAAACCAAGAAAGGTATAAAAG
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CCATTGGACTCAAGTTGATCTCACTATATTCTGAGTGCCGGGAGGTGAATGCATCAAGGATAGTG
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SEQ ID NO: 1401 ACTTTGCAAATTATCTAGTTAATTGTCATCATGAATCAAATTCTTAGCTTCTA
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SEQ ID NO: 1402 ACGCGGGCTAGATACACTGTCAGATCCTTTGGCATCCGGAGAAATGAAAAGA
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ACACATCGATCTGGGTATCAAATATGACCCAAGCATTGGTATCTACGGCCTGGACTTCTATGTGGT
GCTGGGTAGGCCAGGTTTCAGCATCGCAGACAAGAAGCGCAGGACATGCTGCATTGGGGCCAACA
CAGAATCATCAAA

SEQ ID NO: 1403 ACTGTCTCTTTTGAAAAAGTTCTTGATCCCCAATGCTCCACAAGCAGAGAGCA
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GGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGCCCTTAACCTCTCTGTGTCTATTATGA
GATTCTGAACCTCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTTGATGAAGCCATTGCTGA
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SEQ ID NO: 1404 AACGCGGGCAGCACCTCCTTGATTCTCAGTTTTGCTGGAGGCCGCAACCAGG
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AAAAATTCTCCATGTTGACAACCATATTGGTATNTCAATTGCGGGGCTTACTTGCTGATGCTTNAC
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SEQ ID NO: 1405 ACATAAAGTAAAGGAGAACAGCTATATTGTCCTTTCTATAAGCTTGTCACTGC
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GAACCATTTCCATTANCAAACCAGGAAAAANACNATTGCNTTCCCATTTANGTNTGNTNTTTTTGT
TTCCTTAAACTT

SEQ ID NO: 1406 ACAATNAAGGAATGGGGAAGGGGGAAATGAAAGAATAGAGAAAACTATACG
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AAGAACAGAGTTCTGGAGTAAAGAAGCAGGTTCCCTTTTTCAGTANACACCTCCCGTCTGCTGTTG
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SEQ ID NO: 1407 ACTTTTTTTTTTTTTTTTTTTTTTTTGGGAGGGGTGAATAATCTTTAATATTACAC
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SEQ ID NO: 1408 ACTTTGAATTTGAGAAGTGGGTGATCCCTCTAGGCTTCTGGAGGTCACATT
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CCT

SEQ ID NO: 1409 ACTTTTAACTAGTAATAGAATTTTCTGAAGAATATCCAAATAAACCAACAA
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CCTTCAGAATCGATGGAGTCCAACATATGATGTATCTTCTATCTTAACATCAATTCAGTCTNTGCTG
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SEQ ID NO: 1410 ACGCGGGATTGACATGAATGATATCAAAGCATTCTATCAGAAGATGTATGGT
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SEQ ID NO: 1411 ACNCGGGGCGCGTCTTGTTCTTGCCTGGTGTGCGGTGGTTAGTTTCTGCGACTT
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SEQ ID NO: 1412 ACTCCTCATAATCCTGATAGGTATCAGAAAACTCAGACGTATTTCCCTATGA
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TGGCNTNCANCTTTCCAAACCNGGGGACNTTTTGTTCATAACTTTTTT

SEQ ID NO: 1413 ACGCGGGGGGAGTCAAGTCCCAACCAGGACACAGCACGGACATGAGGGTCCC
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SEQ ID NO: 1414 ACATTGGTGATCGGAGTATAGTTGGAGCGCTTTGTTCATGATTTCCAGGTTGGC
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AAGCCGCCAGACCGTCTCCTTCTTTGCCATATCCACATGGAAAATCTCATCACCATCAAAGTCAAA
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GATAGCCCATGATTCTGAGCGCTCATCAGCACAGCTATGATGAAAAATTCTAGCACAGGGACTC
CCTTATGGNCATTTTTTTTTTGGGGCGCTCTTNGTGGGNATTAANTNAAACNCNGGGGNTNTGGCNT
ACCNGACNTNTTNNATGANAA

SEQ ID NO: 1415 ACAACAGTTGATGATGAAGAACACGATGATAAGGAAGAAGAGGAGGAGGAA
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SEQ ID NO: 1416 ACTTGATTTTGAACACAGCACGAAAACATTTTGGAGCTGGTGGAAATCAGCG
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SEQ ID NO: 1417 ACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAACACCACCAGTGGTCTTA
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SEQ ID NO: 1418 ACAGCTTAAACCAATGGTATAAATCTTCATTTTGTAAATTAATAATTTCTTG
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GGAACACACATGTATAACCAATGACTGACTCTGAAATATCAAGCACTGTGGGGTGGCTGGAAGG
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SEQ ID NO: 1419 ACATGTTTCTGCTAAAGATAAAGGCNCAGGACGTGAGCANCAGATTGTAATC
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AAGAAGAGATTTCCAAAATGAGGGAGCTCCTGGCTTGAAAAGACAGCGAANCAGGNGAAAATNT
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TTGGCTNCTTACCAAGANGGCTCTGGAANTTTTGNCCNIGGGGNACNAAAGGNAGATCANANGG
GGGGAANAACCCGTNTTTATTTGCNGANNTTTTGAANCCCATANAGACACCNTTTGAANCTTAGG
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SEQ ID NO: 1420 ACCGTTTTCAAGATAAAATAACAAAAAAGAAATACATATTTTTGTTATGAAA
TACCTATACAAAATTTTAAAAATTAACACCATCTGAGCTGCCAAAAAAGGTTTAAAAAGTATCCATT
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CAGCACTTTACGGAAGGGAGGAGGATAAAAATTCCTTCTGCTTTTCTTTTACCCCAACATAAGA
CAAAAACAAAGGTCTGATGTTTACAGTAGTGATTCTACTTATTACAAACAACTGANATTAAAAA
AAAAAAATNCAACCCCGNGNCCNTTNGNGCCTTNACTNGNTTCCGGGTNAATNAAGGNNCTTT
CTTGGGAAA

SEQ ID NO: 1421 ACAGCAGCAGCAGACACGCATCGCAGAGCTGGAGAAGACGTCAGCTGAACA
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SEQ ID NO: 1422 ACTTGCCCTTCCCCAGAAAAGCGGGACTTGCTGCTAAGGGTGAAGGACCAA
GGCAGTTGTCCCTGCGTGGTCTGACACCCTTGAAACGTGGGTGTATAATCAGAGAGGCATCCCTGC
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AGATTGNAGTGTANTGCCAANATTGAANGGANAAAGTGGTTGTGGGAA

SEQ ID NO: 1423 ACGGCCAACGCCAAGTAGGGGATTGCGTTCCCTCCAGTCGCAGACCCTATCA
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SEQ ID NO: 1424 TAATTNCGCCCTTACGCGCTNGTCNNNGGCCNCGCACGCGGGGGCNCCCATG
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SEQ ID NO: 1425 ACAGAAAAGCCCAGATTTAAATACATTTAATATGTCGTTTTAAAAATGATTTT
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SEQ ID NO: 1426 ACAAGTAAGAAGCTGGCGAAACATAGAGCTGCAGAGGCTGCCATAAACATTT
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SEQ ID NO: 1427 ACCCCTTAACCCCTTCTCCTTACCCTTAGCAGCAAGTCCCACTTTTCTAGGG
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SEQ ID NO: 1428 ACTTCTACACATCTGCCTAACTTGGGAATGAATGTGGGAGAAAAATCGCTGCT
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SEQ ID NO: 1429 ATATCCGCNTNAATTGCGCCTTTNGNGCGGCCNNCCGGGCGNGGTNCCACCTA
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NCTTGGGCTTCCATTCTAGTTCTTTTACCAANATTTTTGNGTGACCATGTTGACTTCATTTGGATTG
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AGGTT

SEQ ID NO: 1430 ACACAGAGGGCTATAATCAGAGATCGAGCAGCTTTAGAGAAACAAGAAAAA
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SEQ ID NO: 1431 ACCAGGTGGGGAGAAGTGATAGCAAATCTCAGTGCCAATTTGAGGGGAAGCC
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CACAGTCTCTGCAAGCCCCACCGGGAAGGAGGGCTCAGAAGGCGTAGCGGGTCCGGATATCCT
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TTCCATGGAATTGAACTGCTCACAGAGGTCTCCATCAATCACATTCTTCACAGGGAANTAGTAGGA
GCGAAAGCTGAGGTGGTCCCCCACAGAGAGGGGGATGTTCAAACCGCANGTGCATTTTCACATG
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TGGTNTANACAAATGATTCTTGANCTCCAGGGATCANCGNTGGNCTT

SEQ ID NO: 1432 TTAATTCNCCTTANCGNGGTGCGGNCNANGTACAAANATGACTATAAACA
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SEQ ID NO: 1433 ACTATCACTTTGCCTTGCTCAGTCTCTCCTTCCGCGGCCACAGAAGGAG
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SEQ ID NO: 1434 ACNGCGGGATAATAATTATCTTTGAAGTANAACANTTCTGTAACTGGAAAA
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TCNGCNAAGGA

SEQ ID NO: 1435 ACGCGGGTGAGCAAACTACTCTGGATAAATCTCTTCTAGATATAATATCAG
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SEQ ID NO: 1436 ACAAACCTTTATTGAAACGCACACGCGCACACACACAAACACCCCTGTGGATA
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SEQ ID NO: 1437 ACTCCAGAGGAGTGTGAGGAGACGAGTGAAAAACCCAAAANGAANAAAAAG
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SEQ ID NO: 1438 ACTGTGCTATGGACCACGCACATACAGCCATGCTGTTTCAGAAGACTTGAAA
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SEQ ID NO: 1439 ACGGGGGATAATAGATTAAAGAATTTACCCTTTAGCTTTACAAAGCTACAGC
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SEQ ID NO: 1440 TTATCATCCTAATGTAGACAAGTTGGGAAGAATATGTTTAGATATTTTGAAAG
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CCAATCCAGATGATCCATTAGCAAATGATGTAGCGGAGCAGTGGAAGACCGACGAAGCCCAAGC
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SEQ ID NO: 1441 ACTAAACGAGCAGGTGAAGGAGGCTGAAGGATCGTCTGCTGAATACAAGAA
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SEQ ID NO: 1442 ACTGAATTCAGTGCTTAGAACTGAAGTTATTGAGAGGACAGCTTTAAAGAT
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SEQ ID NO: 1443 ACAAAGCAGCAACTGCAATACTCAAGGNTAAAAACATTAGAAAAGCATTGTG
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SEQ ID NO: 1444 ACTTGTGCCTAGTTTTTCAAGGTATTGGCTGTTCTATAGATGCAGTGATTGTC
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SEQ ID NO: 1445 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTATCAAAGTTTGTAGTGTAAATAATGAAT
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SEQ ID NO: 1446 ACAATAGCGTCTTCTTCCAGCAGTCAACTCAAGCACAAAAGCCAGACTGACT
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SEQ ID NO: 1447 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAACAGNGGTTTTATTGGTAAANAT
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SEQ ID NO: 1448 ACTGATGGGGAAGTGCCGGCGCTTCTTGATGAACTAGATGTGGTTCAGATG
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GGCG

SEQ ID NO: 1449 ACACCTCTTGCAATTCGCTTTATGTGCCCAATGGAAGAGGTGTCCTCTGGAGC
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SEQ ID NO: 1450 ACCATTTTACGAATTTCTGTCTTCATAATATAAGTGAAAATACTGTCAATTTCA
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SEQ ID NO: 1451 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGGGGGANAGTTCTGTANATGTC
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SEQ ID NO: 1452 ACGCGGGGAGCACCTCCTTGATTCTCAGTTTTGCTGGAGGCCGCAACCAGGC
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SEQ ID NO: 1454 ACTCTAGGAACCCAGGGTCACCCAGATGTCCCTTTGATGGCCGTTGTTGAAG
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SEQ ID NO: 1455 GGACAAAGATGACTATAAACAAGATGCAGCCCTCGGTTTCCATGAACAGCAC
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SEQ ID NO: 1460 ACACTGAAACCAAATTTCTAAAACTTGTTTTTCTTAAAAAATAGTTGTTGTA
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SEQ ID NO: 1462 ACGCGGGGGGGCGCAGAGGCCTGCGGGAAGCCAAGATGGCGCATAGGGGTT
CTCCAGGCTGCAGTTGGCGCCTTATCAGTATCTAAGCGGAGTGTTTTGGAAGGAGTTAAGGGGCTG
TGGCAAACGCCCTCTCCGCCGTCATGGCCCGGCATCGGAATGTTGAGGCTATAACTACGATGAA
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GCTGCTCAGTTTATTTATTCACGGCGTGACAAACCTTCCGTTGAGCCTGTGGAAGAATATGATTAT
GAAGATCTGAAAGAATCTTCCAATTCTGTTTCAAACCATCAGCTCAGTGGATTGATCAAGCTCGT
CTTTATTTCATGCCTTGATCACATGAGAGAGGTACC

SEQ ID NO: 1463 ACTGGGATGGCCCTGAGGATCACAGTAATTCTTTGTAGTCATGAAAATCACC
GCCAATCCAATTTCTGCTTCAGGAATAGGTCTAAGACCTTGCCTTTGGAGCATATCCATTATTGAC
TGAATCCATTTCTTCTGACAGTCAGGAATTAAGGTCTGTGAGTTTGTATTCTGTATCAACAACAC
ACGTTCCCGGAGCCAAAAAGAAATTAATGTTCTTCTTCTTCTTCTGTTATCAACCTAGCTTCCCC
ACCTCCAAAGACAACTGCGGAACCTCAATTTCTTATGCTGTTTGGCATTCAAAAATATAAATGGTTT
CCCTTTGAAGATTTGTTTTCTTCTGCGCTCCTGACAGATCAACATTTTTTACTTCCAATAGATGGT
TCATCAAGAGGTGGGTAAAAACTTTCAATTTGTGGAGGCTGCTTCTTGGACTCAACTGCTTTTCAAG
AATTCAGTAAATATTCTGGCTTTACAATTTGACGTCACAAATGAGTGCACATATTGGTTTAATG
GTAACCTTCACTGATACCATGACAAGGNGAGTGCAATTCTTCTG

- SEQ ID NO: 1464 ACAACAATTTCAAAAGGCATATATATGGGTAATTAGTGTTCACATATACCAA
ACCAGGAAACTAAACAAATCTCAAGGATGAGAAACATGAAGAAAACCTTCACTAAAGCGTATCAT
AATTAAATTGTCCAAAACCATTTGATAAAGAGAAAAATCTAAAAGCAGCCAGAGACAAAAAACAT
ATTATTTACAGAGAACAAAAAAGAGTGTCTGCAGATTTCTCACCAGAAATAATGCAAGTGAAAA
GCCAGTGGTGCAACATTTTTAAAAGTATTAAAAATAACACACACACACACACACACACACACAC
ACACACACACACACATGAACCTATAATCCTATACCCNAAAAAAAAAAAAAAAAAAAAAATTGG
TNCCTCGGCCGCGACCACGCTAAGGGCG
- SEQ ID NO: 1465 ACTGGCTGGCCACCAAAGCACACGGAGATTCTGTCAGGCGCTGAGACACCAC
AGCCTTTTCAATCTTGTCTTAAGGGCTTATCTTTTCATCCAATTCAGCAGAGGCTCAAATTCCTTC
TCAACTGCTTCACGACTCTCCTTAGTTTTCTCACTTTCATCGAACTTCACTCCTTCCTTGGCAACATT
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CGAGTGGTCTTCAATCACACCAAGCTTGATGTTGGTACCTTGCCCGGGCGGGCGCTTCGAA
- SEQ ID NO: 1466 ACGCGGGGTTCCGGGGCAGGGCCGTGCTGATTGAGAATGTGGCTTCGCTCTG
AGGCACAACCACCCGGGACTTCACCCAGCTCAACGAGCTGCAATGCCGCTTCCAGGCGCCTGG
TGGTCTTGGCTTCCCTTGCAACCAATTTGGACATCAGGAGAACTGTGAGAATGAGGAGATCCTGA
ACAGTCTCAAGTATGTCGGTCTCTGGGGGTGGATACCAGCCACCTTACCCTTGTCCAAAAATGTG
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GAACTGCTCAACACACANATCTCTTACTCCATCCAGTCTCTGAAGGAG
- SEQ ID NO: 1467 ACAGTAACACAACATCAAAAGCAACACAGCTGTATACAGAAACGTAGGTCAT
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TATATGGATCATATGGAGATCATATCCTGTAGTGTAGTGAAAGCTAAGTCTCAAGGCCATATGT
ATAGATACACAATGTTTTTAATAATCTTAAACAGAGATCAAAGTTTCAATTTAGTCTGTTTGC
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- SEQ ID NO: 1468 ACATTTATATTTCACTGATAATACAAGCTTCTGTGGTGTGTGGACCAGACACAG
GAGCCAAGGGTCCCTCTGTGTCTGTCCAATAGTATTTTACAGGAGGGTAGTGACATAGCTTATAAT
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AGGGATTTTTATGAAATGATATTACACATATCACATTGTGGCAGGTTGTTTGTGTTTATATAT
GCTTTTAAATTCATTAGCAAATGACATTCTCATGACACAGAGTGTTTCAAACACAAGAAGCAAGT
CCATTTATAGGTAGTCCAAGCAATATTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
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- SEQ ID NO: 1469 ACGCGGGGACTTAACGGTGGTGGCTGGTTCTGCGCCGGATCCGGGAGAGGGG
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ANAAACCAGCATCTGGNNTCNTGATTNAAAAAAGACCCTAAACT
- SEQ ID NO: 1470 ACTTCTGTTTCTCAGTTTATCTGGATGTTATCAGATCACAGACCATGGTCTCA
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CAGGCTTTCTTTTCATGCACTTTACTCATAGCACATTTCTTGTGTTAACCATCCCTTTTTGAGCGTGA
CTTGTGTTTGGCCCCATTTCTTACAACCTTCAGAAATCTTAATTTACCAGTGAATTGTAATGTTGTTT
TCTTGCAAATTATACTTTTGGTTTAGAAAGGGATTANGTCTTTTCAAANGGTGAGAACAGTCTTA

CATTTTTCTTTTAAATGAAATGCTTTAAAGAAATGGTGGTA

SEQ ID NO: 1471 ACGCGGGGGTTACCGCGATTCTGAGAGGTGGGCTTTTAGTCCCTCCAGACCTC
GGCTTTAGTGCTGTCTCCGCTTTTCTTTACCTTCACAGAGGTTCGTGTCTTCTCTAAAAGAAGGTTT
TATTGGGAGGTAAAGGTCAATGCGTAGGGGTAGAGTAAGATGTCTTATGGTGAAATTGAAGGTAA
ATTCTTGGGACCTAGAGAAGAAGTAACGAGTGAGCCACGCTGTAAAAAATTGAAGTCAACCACAG
AGTCGTATGTTTTTACAATCATAGTAATGCTGATTTTACAGAATCCAAGAGAAAACTGGAAATG
ATTGGGTCCTGTGACCATCATTGATGTCAGAGGACATAGTTATTTGCAGGAGAACAAAATCAA
ACTACAGATTTGCATAGACCTTTGCATGATGAGATGCCTGGTAATAAACAGATGTTATTGAATCC
ATTGATTCACAGGTTTTACAGGAAGCACGTCCTCATTAGTATTTCGACAGCATGAGATATATAGCA
CAAGTNAAGCATTTATAGGACCCATTTACAAACCC

SEQ ID NO: 1472 ACGCGGGGGAGAAAGAAACGGCGGAGACCTGAGACCCGGAGGCTGAGGCTGT
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CCCCCTTGCTTTCCGGGTCCCGGATCCCAAGTTTTTTAACTAACGGGAGCGAATCCACACCCGAG
CAAAATGTTTGCGAGTTTCAGGCGCCCTTAGTTGAAAGGCTGTAATTAACAAGTCCGCTGTTTGCC
AGCCAGGCGCCGTTGCAGGCGCTTTCTGTGGATTGTCAATTTATTTCTCACAGCAACCCTAGGAGGC
TGTTATCCTTGACATCTGCAGCAGCCCTTCCAAGCTGTGGAGACCAGGTCATCTGGAATGCCATT
TATGTCAATGGAAGAAAGAAAAAGGGGTCTCCTCCATCCTCACTACTGCATTCTNCCACCAACCC
GCTCCTGTCCCACTTCCACAACCTTANTTTGTTGACAATTTAACAGTGGGTTTCTGGAAACAGTGCT
GCCTCCTTGATGGTCTAACTAACTACCAGAGTTATTCTTAACANCAG

SEQ ID NO: 1473 ACGAAAAGCGGCAGAACTAGCTCTGAAAACCTCTGAGCAAGGTCTGTGTGAAA
ATGTGTGACCCTGCCAAAGGAGCAGCTGGCCAGAGAACCATCGCTGCCCTTCTGCCTTGCCCTCTG
GACAAAGGAATGATGAGCACCGTGACGGAAGTTCGAGCCCTCAGCATTAACACCCTTGTGAAGAT
CAGNAAAAGTGCANGAGCCATGTTGAAACCGCATGCACCAAACTCATTCCAGCTCTGCTANAGT
NCTTAANTGTTTGGAGCCCCAAGTTNTCAATTATTNANCCNTTCGGGCNACANANCAAGAAAAN
GCTGCNATGGATANGTGCTCGGCTTATTGNANCCAATATTTTCNNTGATGGNAACTTNAANTGTG
CCTGTANNCCCTTATNTTTC

SEQ ID NO: 1474 ACACTGTTGGTGTTATATGGGGATGGGGTTCTCGGTAATTTTGTTTATTATTTA
TGTTTATTATTATGTTTTATCATTAATTATTCAATAAATTTTTATTTAAAAAGTCACCCTACTTAGA
AATCTTCTGTGGGGGTGGGAGGGACAAAAGATTACAAACCAAACTCAGGAGATGGTAACACTG
GAATTGATAAAATCACCTGGGATTAGTTGTATAACTCTGAACCACCAAACTCTGCTATCAANCC
TGCTACAGTCATGGCTGTCCAGAAANATTTACAGTTATTTTTCTGAGAAAGGATCCATNGGGCTNT
AANAACCTTACNAACTTTAAGAACTTNAAGATTCTTAANTTGCTGAANCTNAANTACNAACTTG
AATTCNATTAATAAAAAAAGAATCCCTGNANTCAANGCTTTAANAGCCAATTNTTACCTAAANGGAN
TGNTCATACCTGNNGAGANCANNTAAATTCTGTATATNCNATANAACAAATTGCAGATTACC

SEQ ID NO: 1475 ACNGATACCGGAAAGGCTGGATACCTNGGTTATTAGAGGATTTTGGAGATGG
AGGTGCTTTTNCANAGATCCATGTGGCCANTATCCACTGGATATGGGACNAAAAGAAAAAATGT
NGAATGCNCTNGCCATTCAAGTGGATTCTGAAGGAAAAATTAAATATGATGCAATTGCTCGACAA
GGACAGCCAAAAGACAAGGTCAATTTATAGCAAATACACTGACCTGGTTCCAAAGGAGGTTATGAA
TGCAGATGATCCATACCTGCAAAGGCCGATGAANAAGCTNTTNNAGANATAACATGAANATACA
AGAGTAGCCTTATAAAAATCTGTATNACANAANGTCGNACANCATGCCAGNTCGAGCAGGTGAC
AAATTGCTNCTTGCTCAATATATTCGANNCACACCATCTCTGCCAAGGANTGGCATTTAACCTTTG
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GATTAATAANAAAAAATTCCCGNGGACNNTTCTNCTTCTGNCCTGNTTGATTCTNTNTCCGAAANAT
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SEQ ID NO: 1476 ACGCGGGGGCTAAAGTGTTGTCAATTTTGTTTAACTTTTCAAACAACCAACTT
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CCTACTGGCAGATTCAAGAGAATGNNGGTTCTTTTTTTTTTTTTTTTTTTCAGGGCCCCAAGACATCT
GAAACATTGNNTAATTTCTGGGGATTGGATANNGCCAAAACCTATTCTNGCTATAAAATTTCTATTTT
TATCCATTGGGGGCAGAAAATNTGCTTGNATTATTCAATTTTTTTTTTTTTTTTTTNGAACAAAAT
CTTGCTTTNCAACCANGCTAAAGNGCAGGGGCGCGAATTTGGTTAN

SEQ ID NO: 1477 ACATGTTTGAAGAAGTGCCGATTGTAATTAATAAAATTCACATCTGATCAATGTC
CTAATGTGGGAACCTGAAAAGAAGTCAGCTGTTGCAGATAAACATGAATTGCTCAGCCTTGCCAG

CAGCAATCATTGTTGGGGAAGAATCTACAGTTGCTGATGGACAGAGTGGATGAAATGAGCCAAGATA
TAGTTAAATACAACACATACATGAGGAATACTAGTAAACAACAGCAGCENNAACATCAGTATCAT
CAGCGTCGCCAGCAGGAGAATATGCTGCGCCAGAGCCCGAGAAGAACCCCCGCTCCCTGAGGAG
GACCTGTNCAAACCTCTTTAACCACCACAGCCCGCCTGCCAGGATGGACTCGCTGNTCATTGCAGGC
CATATAAACCACTTACTGNCAGAACATCANGGAGTTTACTGCCCAAACTTAGGCAAGCTCTTCTG
GCCAGGCTCTTTCATGAATAACAACACTAAGAANNNGGAAGTTCCANAAAAGANGTAACATNGACTC
TTGAAGTCCACCAGGGNAACTTTTGGAGAAATATTTTNTATNTTGAAANGCNCANTAGGATTTNTT
TAGTGNCCTGCCGATTTTGGCG

SEQ ID NO: 1478 ACATTGTTTGTTTTCAATAGGAGTTCATGGAATTTGAAATCAGAAGAAAAATC
CTCATTACAAAACAACAGCATTTTAATTGAATTTTCTAAGTGATCATTTCCGGCTGTTTAAATGCAC
CTGTTCAAATCAAAGTTCATCATTTTGTGGGAACAACTTTGTGTTGAGAATCAAATGGTCACGTA
AATGACAAAACAATAANCATATAATGACAGAAAAAGTAAGTGGCAAAATAACTACAAACTTTGTT
CCACTGGCTACTGCAGTAGAATAAACAAAATGACAGTTANCCANANACACCTTTATTTTCATCTGC
AAAGAAGAAGCTCTTTTCTTTTCCAGGATAATTATGATTAACTNACAAAAATTGGGTACCTC
GGNCGTGACCACNCTA

SEQ ID NO: 1479 ACTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGGGANACAAC
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AATTTGTGAGCCATNTCAAGCCATCAAAAAAACTTCATTNTATTGTAGGAGGGAAGCTGGAAACA
ATGGCANAGTAATTTTGTGTTAANAATTAANTACCTCGGNCGCGACCAC

SEQ ID NO: 1480 AACTCATTAAATAATTAATAGGCGCTTGACCCACAGGCTGTCAA AATTCTG
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CAGGTTTGAATTGTTCTACAGAAAACATGCCCATTAAGATTAATCTAATAGCTCCTCCTCGGTATG
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CAAAGAGAAGATTGAGGAATAGAGGGGTGTCGTTCAATGTNCAATGGAGCCCCAAGTGGTCNC
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SEQ ID NO: 1481 ACGTGCCGCGGAAATGCTCCGCTAGCAATCGCATCATCGGTGCCAAGGACCA
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CCAAAGCCGATGGCATCGTACTCAAAGAACTTTTGACTGGAGAGAATCNCANGATGTGGAATAT
TTGTCATAAATGAANAATGAAAAACCTT

SEQ ID NO: 1482 ACATGTTTGAAGAAGTGCCGATTGTAATTAATAAAATTACATCTGATCAATGTC
CTAATGTGGGAACTTGAAAAGAAGTCAGCTGTTGCAGATAAACATGAATTGCTCAGCCTTGCCAG
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TAGTTAAATACAACACATACATGAGGAATACTAGTAAACAACAGCAGCAGAAACATCAGTATCAG
CAGCGTCGCCAGCAGGAGAATATGCAGCGCCAGAGCCGAGGAGAACCCCCGCTCCCTGAGGAGG
ACCTGTCCAAACTCTTAAACCACCAAGCCGCTGCCAGGATGGCTCGCTNCTCATTGCAGGCCAG
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GT

SEQ ID NO: 1483 ACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAACACCACCAGTGGTCTTA
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TGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAAACTCTTAAGTATATCCGGAAGCGGTCT
GCCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAAGTAAACTTTGCTGCTGATGAAGATGATGA
CGATGATGATGAAGAGGATGATGATGAAGATGATGATGATGATGATTTTGATGATGAGGAACTG
AAATANAAAGCGCCTTGAANAAATCTATACGAGNTCTCCANCCAAATTTGCACAANAGTCAAATT
AANATTGGAAAAAGACTCATAACCATCNTTTCNNCACCAGGATCENNATGGACATGAATCTTTTTNGA
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TTAACTCANTTTTTTAGTAAAGC

SEQ ID NO: 1484 ACTTTCTTATTCAACTGTGAATCTGCTCGAGAAAGACAGAAGTTACAGAAA
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AAGAAATCAATCGAGTTTATATCCAGTTGCCAGTATGCGTCACTTGGAAGCTCTGGGTGAATTACT

ACATTAGATGGAACCCCAGGATCAAGCAACAACAGCCGAATCCAGTGGAGCAGCGTTACATGGA
GCTCTTAGCCTTACGCGACGAATACATAAAGCGGCTTGAGGAACTGCAGCTCGCAACTCTGCCAA
GCTTTCTGATCCCCCAACTTCACCTTCCAGTCCTTCGCAAATGATGCCCCATGTGCAAACCTCACTTC
TGAGGGGGGACCCTGCACCGCATTAGAGCTCGAAATAAAGGCGATAGCTGACTTCATTTGGGGCA
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SEQ ID NO: 1485 ACTACACGCGCCTGGGCNACGACTTCCACACGAACAAGCGCGTGTGCNAGGA
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ANCCGAATTCACAGAGGCCAGGAAGAGGTATCTCCATCAAGCTGCAGGAGGAGGAGAGAGAAT
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SEQ ID NO: 1486 ACTTTTTTTTTTTTTTTTTTTTTTTTTTCCACANAAATCTAANCNCACTTGTCTT
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SEQ ID NO: 1487 ACATCCAAAACCATAAGGAAATATTCTGATGCCCAGATGATGAAGACTGGGG
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AAGCATCTTTTGCTCGGCCTCCAAGTCCCATGTCTGGCTACGGGTCTAGATTNAACACGAGCAGCA
ACAGNGGCCCTAACCCATTCAAGGATCAANANAGACTTGTAAGCCCCGCNTACCTC

SEQ ID NO: 1488 ACAGTTACTCCCGGACCGGCGGCGTGAAAGTCGTGATATCATCGTTGAACTA
TTAGCTTTGAAGTTTAAATCCAATGGAGAAGACTCAAAAAACAGTCCAAAGAATTCTTCTAGAAC
CCTATAAATACTTACTTCAAGTTACCAGGTAAACAAGTGAGAACCAAACTTTACAGGCATTTAATC
ATTGGCTGAAAGTTCCAGAGGACAAGCTACAGATTATTATTGAAGTGACAGAAATGTTGCATAAT
GCCAGTTTACTCATCGATGATATTGAAGACAACCTCAAAACTCCGACGTGGCTTTCCAGTGGCCAC
AGCATCTATGGAATCCCATCTGTCAATCAATTCTGCCAATTACCGTGATTTCCTTGGCTTGAGAA
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GTGCTGAGAAAAACAGGTGGACTGTTGGATAGCAGTANGGCTNTGCAGTTGTTCTCTGATTACAA
AANATTTAAACCGTACT

SEQ ID NO: 1489 ACCTAGAAGCCGTGACCCAGGGCCATGGCGCTTACCTGATGAGTCAGGATGC
TCCGGACGTTTTTACTGTAAGTGTTGGAAACTTACCCCTAAGGCTAAGGTTCTTATAAAAATTAC
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CTGGCAACAGGACAAGGCTTTGAATGAAAACCTTCAGGATACAGTAGAGAAGATTTGTATAAAAG
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SEQ ID NO: 1490 ACTCTGGTTCNATANACTTTTTTTATTTTANGGTTGANGCNGACCCATNATAN
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AACATTCTGATCTGNTAATTCCAGGGNCTGANNTCTTATCAATGNACTGTTTGTGGTAAAAATAA
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SEQ ID NO: 1491 ACCAGAGACTCTCCTATCTCACGGTTGAGGCAGACCCAGGATAGAATAGAGA
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GCAANGACCATGG

SEQ ID NO: 1492 ACCTGCATCAGCATTAGTGATCAACCTGTTAATCCAAGGNCTTTAGAAAAAC
TNGANATNATTCCTGCNAGCCAATTTGTCCACCTGTTTGAGANCATTGC

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AGGAATATTCCTTTTGGTCCATCTTTGCTGGATTCAATNTGTTCCCAAACTTTTGCCTGGCAAGA
GCTGCTCTCCCATCAGCTCTTNCCTCCAGAGCAAGTGCTTGAAAATCATNATTCAGTTCATCCATG
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G

SEQ ID NO: 1494 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGCGNGNTCAATCATATGAACTAGAT
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SEQ ID NO: 1495 ATGCTGATTCTGAAGAGATCAACAGACAAGTTACATATTTTATAACAGGAGG
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SEQ ID NO: 1496 ACGAAGAAAGCATTTCCTTCAAAGAAAGGAAAGAAACCTAAATCTGTTATGGCAAATTTGGA
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CTNGTAAATCCTCAATCTTGGNCGGATCTTNACTTGCTTGNATGCCTTCTTATTTCCTTNTTCCNN
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SEQ ID NO: 1497 ACAACCAGGGCGAGAAGAAGAACGCCCTGGCCCAATATCAGGAGATGGAGA
AGAAAGTCAGCCTACTCAAGGACAATAGCTCTCTGGAATTTGACTCTGAGATGGTGGAGATGGCT
CAGAAGTTGGGAGCTGCTCTCCAGGTTGGGGAGGCACTGGTCTGGACCAAACCAGTTAAAGATCC
CAAATCAAAGCACCAGACCACTTCAACCAGCAAACCTGCCAGTTTCCAGCAGCCTCTGGGCTCTA
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TCCAACCTGAACATCAGAACAAATAAGAGAGAAATAAGAATGAATGAATGACCCCAAAATAGGG
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SEQ ID NO: 1498 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCCCTTANAAAAAGNAGATCTTTTACA
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SEQ ID NO: 1499 ACTGGAGATGTATTTGATAACCAAGGTTTTAGGTAAATTTTCACCAGTATTAG
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CCANNTGGTATTTNNACTTGTGCTNTGTGACCCCTCCCTTTG

SEQ ID NO: 1500 ACAAATTCAGTGTGCAGACCACAACCTCAAAACAAAAAAGATCTATTTCTA
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GATGGAGGAATTAGGCAAAGTGGGTTTTCTAACTACCGTCTCTTCCCTCACC GGATGGGACAGCA
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SEQ ID NO: 1501 ACCTCAAAGTGACGGGGAGAATGGAACCAAGTTGAAAACTGCAGGATA
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AGCACATCAGACTAACAGCAGATCTNTCAGCAGAACTNTACATGCCANAAGAGAGTGGGTGCCA
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SEQ ID NO: 1502 ACAGGAAAACGCTGCCGCGGTCCACAGTGTGCGATTCTGGATGACCACATTAG
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SEQ ID NO: 1503 ACGCGGGTGATCCATGGGATTTCAATTCTAATGACCATGTGAAGATGTTTGAGT
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SEQ ID NO: 1504 ACTCCCAATGGTGGATTTATTACTATTAAAGAAACCAGGGAAAAATATTAAT
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AATAAATGTTGTAAANNAGTGAATAAAATCCCTTGCATTCTTCTGGACCTTNAATGGGAAG
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SEQ ID NO: 1505 ACAGTGGGCATGCAGCGCCTCGGGACGACACCCAGCGTTTATGGGGGTGCTG
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SEQ ID NO: 1506 ACCCAACTAACCACAAAGCCAGGCCTGCTGGGATGAGGATAAAAATCAAAT
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CTCNGNCNATTGGCTCTGCATGGCATAATTGCCTGGNGACCG

SEQ ID NO: 1507 ACCCATGATTTGGACACTTTGTCGGGCCCATTTACTTATACTGCAAAGCGTCC
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SEQ ID NO: 1508 ACAGTTTTTATACTGAAGCTAGTATTGAGCTGCACTTGAATTCACATTCTTAG
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SEQ ID NO: 1509 ACTATTCCTTACAACCTGGAGTGGGTAGAAGCCTTATGAAAATTATACTGACA
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SEQ ID NO: 1510 ACTTGGTGAATATGAGGAGTATATTACTAAACTTTTCAACTACCACAAAGTTC
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GGGCTGCGTTTCATGGTNGAACCAATNCANGGTGAAGCANGCNGTTGTTGNTCCCGATCCAGGTIN
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SEQ ID NO: 1511 ACAGACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTTGAAGGA
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SEQ ID NO: 1512 ACCTAGAATTCTTCAGCATAAATGCCCAAAGAAATGCATTAGCAATTGCAGC
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SEQ ID NO: 1513 ACAGTTTTTATACTGAAGCTAGTATTGAGCTGCACTTGAATTCACATTCTTAG
CAAAATAATTGCCTGAGCACACACACATTCCACACGCATCATTAAAGGATAGCCATTTATCTT
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TCTTCTTTGAGCCTGTTGGCCTGCCAGGGCCCTTCTTCTGCTTCACTTTTGCCCTTGGCACGATAT
GCAGCAATATCCTTTTCATATTATCTCCTTANCTTANCTGCTTCTGTTTCATATGGTTGTTTATCTT

TGGCTGACTGCTNANACCACAATTTACCCCAATNTNTTTGCNNAATCNCCAAAGGANAGGGCCNG
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SEQ ID NO: 1514 ACAATGCCTGCATCCTGGAGTATAAACAGAGTGGCGAGAGCATTGACATCAT
TACGCGAGCCCATGGCAATGTCCAGGACCGCATTGGCCGCCCTCATAGACCGGCATTATTGGCA
TCNTTGACCCTGAGTGCCGATGATTGGCCTGCGTCTCTATGACGGCCTTTCAAGGNTATCTTCA
CTAGATCNCGATAATAAANAACCTNAGGCCCTCANCATCCGNCTGGAGGAGCTGCATGTCATTAG
ATGTCAAAGGNCATTTTGGGT

SEQ ID NO: 1515 ACAGACAAAGTGGGAGGTTTTATTTCTTGGTCTCTTCCTCCTTGGATAAAGAC
TTGATGATCTCCTCCTTCTTGGCCTGGAGGCGCTCTTACGGCGCTTGGCTGCTTCCTTGGTCTTAG
ACCTGCGGGCCTCANCCTGGTCAGCCAGGANCTTCTTGGCGGCCTTGTCTGCCTTCAGCTTGTGGA
TGTGTTCCATGANAAATCCGCTTGTTTTTGAACACATTCCCCTTACCTACAGGNACTGTAT

SEQ ID NO: 1516 ACGCGGGGGTTCCTTCAGTCCGCTGGTCCCGAGCACGAGCTGTGAGGGGATT
CACTTGTGTGCGGAACCTCCTCGGAACCATGGCGTCCCTTTCCCTTGCACCTGTAAACATCTTTAAGG
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GATGCCTCTCTTATGGTAACCAATGATGGTGCCACTATINTAAAAACATTGGTGTGACAATCCA
GCAGCTAAAGTTTTAGTTGATATTGTCAAGGGTTCAAAGATGATGAAATTGGTGATNGCACCTACC
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SEQ ID NO: 1517 ACTTCAAGTTAAAGTGAATAACCACTTAAAAAATGTCCATGATGGAATATTC
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AGACCTTCTCCAAATGAGATCTAAGCCTTTCATAAGGAATGTAGCTGGTTTCTCATTCTGAAA
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TCTGNTGGANTAAAAAGAGGGTTNAACGTGTGNTTGCNGGAATAAGGCNTTANTATGTTACCTCA
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CNCCATANCCNCCNTTNAGTCTTTGTTTTTTGTTTTNCAAAAACATT

SEQ ID NO: 1518 ACGCGGGGGCTGTGGTCTGAGCTAGAGGGTGAAGCTGGCGGAGCAGGAGGA
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AGTCCAGTTCAAGAAAATTCCAGTGATTTGAATAANAGCATCTGGGATGAATTCATTAGTGATGA
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SEQ ID NO: 1519 ACATGCTCCATCTTCCAGGAGGACCCTCTCTGTGGCACCTGGACTACCTGC
CCCCTGAAATGATTGAAGGTCGGATGCATGATGAGAAGGTGGATCTCTGGAGCCTTGGAGTTCTTT
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SEQ ID NO: 1520 ACGCGGGGATTATTGTAAATATTTGATCTTGAATCACTTGACAGTGTGTTTT
GAATTGTGTTTTGTTTTCTTTGATGGGCTTAAAGAAATTATCCAAAGGGAGAAAGAGCAGTAT
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SEQ ID NO: 1521 ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAGCG
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SEQ ID NO: 1522 ACTTTTTCTTTTCTTAGACTTTGGCTTACTGGAAGATTTAATTA AAAAGGTAGA
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SEQ ID NO: 1523 GCCCTTNNCNGNGGCCGNNCNGNCGGGNCGCGGGGAGGGGCANGTGTNGCC
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SEQ ID NO: 1524 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTTTGAAATTTANAAACAAATTTTA
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SEQ ID NO: 1525 ACCTACATCAGATCTAACCTTGATCCCAGCAATGTGGATTCCCTCTTCTACGC
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SEQ ID NO: 1526 ACGAAAAACCTGAAATCACATGCCTATGTAAGGAAAGTGCTATTACCCAGT
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SEQ ID NO: 1527 ACAGACTTGTTTTGAGTGTTGAGTGGCAGGGACAAAATAAGGGAATGTTAT
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SEQ ID NO: 1528 ACACCTTTGAGACGCAGGAAGCAGCTGAAAGAGCTATTGAAAAAATGAATGG
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SEQ ID NO: 1529 ACGCGGGGAGTCAGCCTGGCTCCTGTTGAATAGTCTACCCCCCTTGCACTCTA
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SEQ ID NO: 1530 ACGCGGGACAGAGAGCATCTCCGTGGCCAAAATCAGTGTCTATGGGACACTC
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AAGTCTTGCCCTCATCTGAGAATACTGTCTTTCCATATGGCTAAGTGTGGCCCCACCACCTCTCT
GCCCTCCGGGACATTGATTGGTCTGTCTTGGGCAGGTCTAGTGAGCTGTANAATTGAATCAATG
TGAATCCAGGGAAGTGGGGAAGGCTGACCTCCTCTTTGGTGTGGCGTAAGATAACCGACAGGGC
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SEQ ID NO: 1531 ACAGAGTATGTAGTGGGCATCTGTTGAATGAATGCTTTTCCAGTAGCAGTGT
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ACTAATATCAAGTGGAGATGTTTTACTTTTAAAGGGTATTGCNTTTGNGATAGCATAAATAGTGGTT
TTCCTTTTTGTNATGTAAATTAATTTGCTNGCAACTTTTTGTATTCCTTAGACTNGGGGAAGCTT
ATTGCCTTTACAAGTNCCTTCCCGGGCGGGCNGTTCAAAAGGGC

SEQ ID NO: 1532 ACTTGTATTTTCACAGATGGATTATCTGGGGTAATTTTCTTCAAAGGGAGTTT
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CATTAAACAAGTTATTTTATNGGNGTTCAGAGAATTAAACNTGACT

SEQ ID NO: 1533 ACATTTCTTTCTGTGTTCAAACCACGGAGTTCACAACACAGCAGCACACACAG
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GGGTCTCATGAGAGAAGTCTCTCCAAAAATCTTGGAGTGNCCCCAAAAATC

SEQ ID NO: 1534 ACTTCTATTTATCTTTGATTTCAGTCTTGGCAATTGTTTAAAAAATAATCTA
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TCAGATTCCTAATCATAGCCCGTAAGAAGGAATGTTACTTTAATATTGGACTTTGCTCATGTGCTC
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SEQ ID NO: 1535 ACGCGGGGCTTTTCTAACTCCGCTGCCGCCATGGCTCCTGTGAAAAAGCTTGT
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ATCTACGTGACTGGTTGCGCGTAGTTGCTAACAGCAAAGAGAGTTACGAATTACCGTTNCTTCAGA
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TTGAANCANAAAAATTGGATATNNTTATNCAAAAGGCTTCCCTTNGGTNCCC

SEQ ID NO: 1536 ACAGATGTCTGCGTGTGTTGCAGCCCCAAGAAGATCTAGAGACCATGCAAGCAT
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SEQ ID NO: 1537 ACGGGGGCTTTTTCTCTCTTCAGCGTGCGGCGCCCAATTTGCGCGCTCTC
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CAAGCAGATGTGGCAGTATTTGAAGCCGTGTCCAGCCACCGCCTGCCGACTTGTGTTCATGCCCTA
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SEQ ID NO: 1538 ACGCGGGTGAGGGGATTGATTGACGCACAATCCTGAGTTCACCACCTGTGA
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NCCCCCTTGGCTTAATGGNCCCGCTCTAAANAGGGGTCTGACTTGGNCGCTTTGANCTGTTTGTNA
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SEQ ID NO: 1539 ACAAACACTGAACGCCCTGATACACCTACAAACACGCCAAATGCACCTGGAA
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ATAATAAATCCTATAACAATGCAGTGTATAAAGCACTATGTTGGCCATGGAATGCTATCAATGA
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ATGGAATATCCAGACNGACACTCTGGTGGCAATATTTGGAGGCGTANAAAG

SEQ ID NO: 1540 ACATATTTTAAAATAGAATAAATTGTTAAACATAAAATTTTAAAAGTAGTAG
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TAATCAGTTTTTCAAATCTTGATTTTTGATATCATTATTCTAAGGAGNTATCCTNAAAGGCACAAA
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SEQ ID NO: 1541 ACTTTNTTTTTTTTTTTTTTTTTTTTTTTTANANATGAGGTCTCGCTATGTTGCC
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CAGGACATTATNTTAAAGGTATTATCCAGGAAACAGATAAGGTCATTCATAAAACACACGGCTT
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SEQ ID NO: 1542 ACTTTTTTTTTTTTTTTTTTTTTTTTTTCTTCNATTCCTCTCAAAGGCATTTGA
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SEQ ID NO: 1543 ACTATTTTTGCAGGGTTTGCACAGGCCCGTAAGTGTCTACTACTTTGATATAA
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SEQ ID NO: 1544 ACACACCTAGTTCATAATCCTCATAATTTATCAACAAACACAAAAAAGTGTCT
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CAGTCTTCTTAGTGACCAAACCTTTAATTTTTAAGAATAATATATTGACTTACTGAACTGAAGCATT
CTGAGTTGAAAGGAGCTCCAGAGGAGTGAGATTCTGTGTTGCTCAGATGTTAAATCTTGCTCACC
TTCAGAGCAGAGGGAATCCTATCTTCANATATCCGNCCATTTTCATCTCTTAATTGGTAGTCAAAA
GTATTGACTTGAGAAGTGTGCTCTGGTATTCTGGGGTCTGAAGCT

SEQ ID NO: 1545 ACATCACTGTGTCCCTAAAATAACCCACCCAGTGAAAAACTCCAGCCAGT
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CAGGCTGTTCTTGATCTCCGATAAGCCCGGGAAATGGAGTTCAGACACTGAATACAGCAATTGA
GCTGAAGGATACGATGGGCTGTTTGCTTTTTCTTTGTCAACTATTTTCTTAAGGTTCTTTTCTCT
TCCATGGTCTTGGCTGGTCTGATGGCTTTAATCTGTCTCTGATGTCATGGTATGAAGGGATG
CGATTAACCTTCTGTCTTGGGGTGACTTGTGCCAATCACATTCAGACAATGGTGGGTTTCCATAAG
CATGGACAGGGACCACTTTCACCTACATAAGCCAGGGTTCACATA

SEQ ID NO: 1546 ACACTGAGCCCAAAAAGGCCCGTAGCCAACACTATGACTTGGTTTTAAATGG
CAATGAAATAGGAGGTGGTTCAATTCGAATTCACAATGCAGAGCTGCAGCGTTATATCCTGGCAA

CCTTACTAAAGGAGGATGTGAAAATGCTCTCCCATCTGCTCCAGGCTTTAGATTATGGGGCACCCC
 CTCATGGAGGAATTGCCTTAGGGTTAGACAGACTGATATGCCTTGTCACTGGATCTCCAAGCATCA
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SEQ ID NO: 1547 ACAGTTTGCTGCAAATGATAATTTAATTTGGATAATGCTTTAAATCATTGATT
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 GTTGCTTAACTTTTTGGACAATGGGAAAAAACAATAAAAGCTAAATGTGGTCCAGCATAT
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SEQ ID NO: 1548 ACAAAATACAACCTATAAAAGCAAGGAACAATTAATGCCATGCAAGATTTTAA
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 ATCATCTGAACCTATCCTCAGACTCACTTTCTTTTTTGGGAAGTGGTTTTGATTCTTCTTGGGNGNG
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SEQ ID NO: 1549 GGACAAAGTTGTATGACAGGGCATATTCTTTGCTTCCAAGATTTGGGTTGGGG
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SEQ ID NO: 1550 ACCAATAAATGATGTGTTAGCTGAAGATAAGATTTTGAAGGAACAGAAACA
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SEQ ID NO: 1551 ACCTTCGCAGTGTAGGAGATGGAGAGACTGTGGAGTTTGATGTTGTTGAAGG
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 AGGGTGCANGAGAACAANGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAAACACGATT
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SEQ ID NO: 1552 ACTCAAAGACGAATCATGAAAAAGAAAAAACTTTATTTCAAACAGGTTTCAG
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SEQ ID NO: 1553 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTAGTAGTCTATACATTTATTGAGTAAAAA
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SEQ ID NO: 1554 ACACCTTGAAGGCGAGGTTAATTAATCCTGTTGTGGAGTTTGAGGGCCGGA
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SEQ ID NO: 1555 ACGCGGGGGCGTCTTGTTCTTGCTGGTGTGCGGTGGTTAGTTTCTGCGACTTG
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SEQ ID NO: 1556 ACTTTTAAAAGTAAAAAATCAGATGATTCTTTTGGGGAGGAGGATGTGCG
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SEQ ID NO: 1557 ACTTTGGCCTCTCTGGGATAGAAGTTATTACAGCAGGCACACAACAGAGGCAG
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CCCTGGAGACAAAGACAGGGTGCCTGGAGACTGCGTCAACACAATCTCTCCGGTGGTATCTGGGA
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SEQ ID NO: 1558 ACGCGGGAGTTGATGATTTCTTTTAAAGAAATTAGTTTATTTAAAAGCAAGA
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SEQ ID NO: 1559 ACGCGGGATCACCTACCACTGCAAGAACAGCATTGCATACATGGATGAGGAG
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SEQ ID NO: 1560 ACCCACCACCTTCTTCTCCTACATATCCCTTCCAGATGGNCATCCAGACTCAG
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GGCTTCACCATCAATCCTGATTCTCTCTAAGTGGGCATTGCCATGTGGAAGGCANGCCAGGCTCA
CTCACAGANTCAAGGCCTGCTCCCTGTANGTCCAACCAGACCTGNAANAACAGGCCNCTCCATT
NGCTCTTNANATGCCACTTCTAANAAAAGCCTAATCACAGTTTTCTCTGGAATTGCCANCTGACAT
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SEQ ID NO: 1561 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGTCCAAAAATGGNGATTATTTATGGC
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GCACAAATATCCTTGGCCAGTTTGGTCTTGAANATCACAGCTTTCTGGGGACATTTGCCACTGGTG
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GTTGGGACANAAGCTGGCCAGCGAGCCCTGGGGGCTGAAGGCAGCTGCTATNAGCAGCAGCC
ACAGAAAGTGCTGCGGAGACCTTCATGTTGGAGGCTGAAGGTGTGAGCTTTGGCGTGAGANGTGGT
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SEQ ID NO: 1562 ACACAGATTGGCTTCATATCAATTAAGAATGAGATACTTGACTGGATTTTGT
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SEQ ID NO: 1563 ACAAGCCTCACCAAGGGCAACCCAGAAAAGTGAATGAGTTTGTCTTCTCCA
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CTGCAACCTTTGCTGTAGAGTCAACTCTTACCCGGGAACCAAAATATCTTTATTTGTCTGTATCCAT
ACCAGTATTTGCAATAAGAATTTAGCATTTTCAATTCGTTTTGGTTGATTTACTCCAATTTTTTTAT
CCAACAGGAAGCCTTATCTAAATAGGAATCTGCCAACTTCTCCTANCTTCTTGATAATATGAAT
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SEQ ID NO: 1564 ACCTATTATATAGAGGGATAGCTGAATAAAGTCTGTCTCAAAACCAGTGTTA
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SEQ ID NO: 1565 ACTGCAGAGGTATGTGCAGAAACACCCACCCATTTAAGCTTCAATAAATAC
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 CCAAGCTCTTTAGACTTCAGCACTTCTCGCTCTTCAAGCCTCAGCACCTTTTTTGAGCAATAATGG
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SEQ ID NO: 1566 ACTCGTCAATGGGCTCGGTCTATATATACCACCTCGAAGCCCCGTTTCCGCACT
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 TCAAGGCACTTCTTAACAATGTTTTTGCGAATGACTTTCAGATTFTGCTCTGCTGGAGCATTCTC
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SEQ ID NO: 1567 ACAATGACCAAGATGCGACCAGGATCAGAGGTTCCCTGGGGAAGACCCACCC
 TACGAAGTTGGAATGAGACCATCAGATGTGATAAGAACTCTTCTAGATGTCAACATAACCAACC
 TTATAAAGACTAAAATTTCATGAGTAGAACAGGAAATCATCCTGACTCATGTGTGTGTTCTTTAT
 TTTTAATTTTCAAAGAGGCTCTTGTATAGCAGTTTTTGTCTATTTTAACATTGTAGTCATTTGTACCT

SEQ ID NO: 1568 ACCGGATTCTCTCTTTAACCCCTCCCCTTCGTGTTTCCCCCAATGTTTAAATGT
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 TCAAGTATGGTTTTTGGGGACTANGANGGCTCANNTGGGTGGGAGAAATCCCTGCANAAACCCC
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SEQ ID NO: 1569 ACAATCATATTCTCAGGTTTCATGACAGAACTAAAACTCTAGGAACTCAT
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 CCCATCAGGTTTCATGCCTACTGAAGTCACAGAATTCCACATTTTGGAAATGGTTTGTCTGGAACCTG
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SEQ ID NO: 1570 ACCGTTGTGTGTTTTCTGCAATGTGGAGTTGACTTAGCTTGGCATTTTAGATT
 GTTAAACTATTTTTTCCATAAATACTTTGAAACATATTTATATATTTCAATTTAAGGAATCTTTTT
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 TCGAACTTTGGCTAGTTAAACTCATATTGAAACTTCATCTAGTCTCTTAATTTTTTAACACTAAATT
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 NTCATTATGGNTCATTGGGNTTTTGTACCTTGCCCGGGCGGNNCGCTCTGAAAGGGCCA

SEQ ID NO: 1571 ACCTACATCAGATCTAACCTTGATCCCAGCAATGTGGATTCCCTCTTCTACGC
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SEQ ID NO: 1572 ACACTTTTGTACAGTTACATATATGAATAGTTAGCAGAGGAGAACTCCTCC
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TATACTTGGACAAAGGCAACATTTTAATTTTGTCTAAGTCTTAACCTTTAGCCCANATGGGGTGGAA
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SEQ ID NO: 1573 CGCCCTTAGCGTGGTTCGGGCCGAGGTACTGGCAACAGCTGATGCGTATAAAA
CCCTTAAAGTCTGGATCAGTTATGTATATCTGGATCTTAGAATATCCATGGCACTTCTGATAGCAA
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SEQ ID NO: 1574 ACCCAGTAAAAACCAGAATGACCCATTGCCAGGACGCATCAAAGTTGACTTT
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SEQ ID NO: 1575 ACTTTATTTTTTTTTTTTTTTTTTTTTTTTGGCAGTTTTTACATTTATTTAAACAGAA
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CTTCCGGAAGCCNCTGGGCANCATGTGCTTTGTTTTTTTGTGCTTCATAACCAATGTTGGGCATC
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TTAATTTTGACATATCGGTCTGACTGGTGCCGGATGAACCTTCTGGTTCTCTTTTTTGACNATCTTG
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SEQ ID NO: 1576 ACATTCATAGGGTTTTTTCCTAGAGTGGGTCTTTCATGTATACGAACATACT
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SEQ ID NO: 1577 ACATAAAGTAACTGGTATATGTGCACAAGCATATTGCATTTTTTTTTTTTTTAA
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SEQ ID NO: 1578 ACTTGATTGGTCATTTGAAAACACTGCAACAGTGAACCTTTGCATCTCAAGAA
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ATAAAATATTTTGGACAATGCCGATAAATGTATGAAGTTAGTATCCACATCATAAATTCAGAGTGA
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SEQ ID NO: 1579 ACATCTGTCTGTTACTTTTTGATAATTCTCAAAACATTTCAAGCATTTAAATT
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ACTGCTGACCACTCCCAGTCTCTCTGCCTCTTCTCAGGCCTTCTTATTTCTGAGACAGAACAAAT
TGAAAGTAGGCCAATTAATAACTCTACAATAACCTCTAANTGTTCAAGTGAAAGGAAGAGTCGCC
CATCTCTCTTTTAAATCCAAAGCTAGGAATGATTAAGCTTAGTGAGGAAGGCATGTTGAAAGCCA
AGATAGGCTCAAAGCTTTGGCCTCTTGTGCCACATGGTTAGCTAAGTCATGAATGCAAAGGAAAA
AGTCTTGAAGGAAATTTAAAAAGTGATACCTCCAAGCCAAGGCGTNGNGGCTCATGCCCTGTAAC
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SEQ ID NO: 1580 TTTTCAGGTTCTTCCTAGCTCGGGGCTTTTAAATTTTGAAATCTAAACATTCTTT
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TTTTTCTTTTTGAATTCTATCTTTATCTGTCTTTTGTCTACTTTTTAATGCTATATATGGGCAGGG
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GCACAGAACCTGTCTTCCTCCAGTTCTCAACATGGTGTTGCTCTTCAGTCATACCGGAATCTGA
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SEQ ID NO: 1581 ACGCGGGGAGTGGCTTGAGGTATCCGCAGGAGCGGCCGGGTGGCGGGAGGA
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TAAAGAAAGATGAAGACCTCTTCCGGGAATGGCTGAAAGACACTTGTGGCNGCCTACGCCAAGCA
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CTCTNAATTCCCAANCCTCNTACAAAAGTTTNNNACCGAATAAGGACTCCNTNCCCTGTCCNTCTN
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SEQ ID NO: 1582 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCCATTGCTAIGTTTTATTTTGCTA
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SEQ ID NO: 1583 ACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAACACCACAGTGGTCTTA
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GAATTGGAAGAGACTCAAAACCATCATCAACACCANNATCNATAGGACAATAATCCTTTNAAGAA
NACATGANAAAACCTTCTAAAAACCAAAAANGACCTAATTTTNTGT

SEQ ID NO: 1584 ACGCGGGGGGGTGGTGCCAGTTTGGAGCTCCTGGAAGGTAAAGTCCTTCTT
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GATGCTGACTAGTTACAGGCTAGCTAAAGTAGAGGGAGAAAGAAAGCCCTGCTGAACCANCTGCCA
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GAAAGTGGTCTTGCTGAATTAACAGCTCTAATTGAANATGCANGGACAAAGATGAGTGGTGAAA

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SEQ ID NO: 1585 ACAAGACCAGCAAAGCCCAGCTTCTCGGCTGTGAGCTCTGAGAACCTGGGGA
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TTATAATCTTCGACAGAGGTCACATCCAGCTTATGCTTTGTTTTTGGTTTGGGTGGTTCAAATGGAC
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TTCTCAACCATCTTGTGCGGTGNCAACTGTTGACCAACTTTGGAA

SEQ ID NO: 1586 ACCACCAAGAATTCTTCAAATAAGCCAGCTGTCAACCAAGTCACCTGCAG
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CCACCACTAAGCCCAAGGCGACTGCCAAAGCAGCTCTATCTCTGCCTGCCAAGCAGGCTCCTCAG
GGTAGTAGGGACAGCAGCTCTGATTCAGACAGCTCCAGCAGTGAGGAGGAGGAAGAGAAGACAT
CTAAGTCTGCAGTTAAGAAGAAGCCACAGAAGGTAGCAGGAGGTGCAGCCCCCTTCAAGCCAGCCT
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SEQ ID NO: 1587 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAANAAGGTCCAAATCAATAGGTCT
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ACACTGCTCTCATCCGAACCCTGCGGATGTATTTTACCCCAAGAAATTTGCGATTTCACAANA
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SEQ ID NO: 1588 ACTTTTTTTTTTTTTTTTTTTTTTTTAAATCTGAGGAATAAATGCAAGTTTTTAA
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SEQ ID NO: 1589 ACAGTTTCCCAGCCCACAGTCATTGCTTCATTCCTTGTCTGATCAGATGGTAG
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CTCCCTGACTGCATGGTCACCAGGTGATGTGTACATCAGGCACTGAAGACAGGGAACGTGGGGA
TCCTTCAGCAAGCACCTCGTCATCAACTCCAGGATAGAATTGGTATTTGGTAGGTTCAAGGACTC
TCCACCAAGGCTGGGCTTGGGAATTCATAGACACCAGGTTTTTACTGGGTCCNCGGGATTTTAAGG
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SEQ ID NO: 1590 ACTACGACATTTCTGCCAAAAGTAACTACAACCTTTGAAAAGCCCTTCTCTGG
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CAGTTTAAAAAATAAATTCATTGTTTGGACCTGCATATTTAGCTGTTTTGGAACGCAATTGATTNCT
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GTTACTGGNCATTTCCCATTTTCCTTTTTTCGTTTAGA

SEQ ID NO: 1591 ACAGTTCACCTCTGCAAAAAATACTCCTTCTCAGCATTACATTCCATTTCAGCA
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CAAGAGATGAGTCTAGGGGCCGTTCTCGTTTTATCCTGATGGTGGAGATCAGGAAACTGCAAAG
ACTGGGAAGTTCTTAAAAAGGTTACAGATGAAGAGTCTAGAGTATTCCTGCTTGATAGGGGTAA
TACCAGGGATAAAGAGGCTTCAAAAAGAGAAAGGATCAGAGAAAGGGAGGGCAGAGGGGAGAATG
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TTCANAAGGGGATGACACCAGAGGAGACAGANGATTATAGACAGTTCAGGAAGTCAGTCCTCGC
AGATCAGGGTAAAAAGTTTTTGCTCCTGNTCTCACCGGAAT

SEQ ID NO: 1592 ACGCTTGATCAGATTTCTGATGCAGATAATATCCCAGGACTTTTGTTTCTCAA
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SEQ ID NO: 1593 ACGCGGGGTCCTGCTTTTGTTTCTTACAGTAGTCGGCGTAGGCCTTAGGTGGG
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TGGGAGCGGACGAGGCGCGAAGCTGGGATTTTTTACTGTCTCCTGAAGAATTTAACACAAACATG
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SEQ ID NO: 1594 ACCATCTGTGGTGGCTCTCTGCAAGTTTTTAAACTGCCTCTGCTGAGCTCTCA
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TTCATCTCAAATTATTTTGAATTTCTTCCCAAATGGCTGCTGGATTTAGGTGGTAATAGGGGCTGTG
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SEQ ID NO: 1595 ACTTGCCCCTTCCCCAGAAAAGCGGGACTTGCTGCTAAGGGTGAAGGACCAA
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SEQ ID NO: 1596 ACGCGGGGAAACCGGACCCGCAACCACCATGAACAGCAAAGGTCAATATCC
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AGTCATGCAGGGAGCCAACGTCTCGTAACTCANCGGAAGGGGAACCTTCTTCATGGGTGGTTCAN
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SEQ ID NO: 1597 TGTACATGTTGTGGGTGCCGCTCCGGGAGTCATAGCGCAGCCAGATCCCGAA .
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 CTTTCATCTTCTTTAACTGAGATACAAAGTACCTTGTTCACTGTGGCATAATAGAACCGTTGATGAA
 CCTCTTAACTGCAAAAGATACCAAGATTATTCTGGTTATCCTGGATGCCATTTCAAATATCTTTTCAG
 GCTGCTGAGAACTAGGTGAACTGAGAACTTAGTATAATGATTGAAGAATGTGGAGGCTTANA
 CAAAATTGAAGCTCTACAAAACCATGAAAATGAGTCTTGTGTATAANGCTTCGTAAAGCTTAATTG
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SEQ ID NO: 1598 ACACCTGGCTTGAGGCTGTCTATCTTCCTCATCGGTATCATCGTAGCCAATGTG
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 ATGAAGCTGATACGACAGAGAATCAGAGTGGTGTCTCTTTTGACAAGACTTCAGCTACCTGGCTTG
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 AACAAAGTACC

SEQ ID NO: 1599 ACAAGCCTTTAAAGAAGCAAGACAAAATGTTGCTGAAGTTGAGTCATCAAAG
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 TACATAATTCAAAGGAAAAAATAGCAAAGATGGAACATGGACCTAAAGCAGTGACTATTGCAAAAT
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SEQ ID NO: 1600 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGCAGAGGCNCAATCATTTTANATTA
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 ANANAACGGTGCTCCACCAATTCAGCTGGTCTGTCTCATCANCTTTGGGCTGANCTGGGGTG
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SEQ ID NO: 1601 ACAATTTAAAAATAAGTCTATGTTTTTACATTGATTTTAAAAAATATAGCATG
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SEQ ID NO: 1602 ACAGATGGGGTCTTGCTATGTTGCCCAAGCTGGTCTTAAACTCCTGGCCTCAA
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SEQ ID NO: 1603 ACAAACCTTGCTCAGAAGCTGTATCAGCATGAAATCAACTTATTCAAAAG
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ACTTTCAAAGAGTTGCTTATCACAGACCTTTTGCCAGACAATCGGAAGCTGAGGATTTTCAGCCAG
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SEQ ID NO: 1604 ACTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAATATTTATTTTCTTAACGAC
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SEQ ID NO: 1605 ACTGAGCAGGATTACCATGGCAACAACACATCATCAGTAGGGTAAAACTAAC
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GAATTCGTCTTACAATGATAGGAAGAGCCGACATCGAAGGATCAAAAAGCGACGTGCTATGAA
CGCTTGGCCGCCACAAGCCAGTTATCCCTGTGGTAACTTTCTGACACCTCCTGCTTAAACCCAA
AAGGTCANGAAGGATCGTGAGGCCCGCTTTCACGGTCTGTATTCTG

SEQ ID NO: 1606 ACGCGGGGCTTTTTTCGAGGTAGGAGTCGACTCCTGTGAGGTATGGTGCTGG
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SEQ ID NO: 1607 ACGCGGGGACGGTTCGTTTTTCTTTAGTCAGGAAGGACGTTGGTGTGAGGT
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GGCCTTCTGGCCAGGCGTCTGCGAAATCATATGGCTGTAGCATTCTGTGCTATCCCTGGGGGTTGCA
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GACAGTNAAAAA

SEQ ID NO: 1608 ACGCGGGGCTCTCCTGCTCTCCATCATGGCGCAGGATCAAGGTGAAAAGGA
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ACAGACTGACGCGAGCAGCCAAGGTGTTGGAGCAGCTCACAGGGCAGACCCCTGTGTTTTCCAAA
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SEQ ID NO: 1609 ACTTTTTTTTTTTTTTTTTTTTTTCCACACCTGCCCTTTATTGGTCTCTTCTAGCAA
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TGAAAGAACTTTCAAAAGTTCCAGCCACATCTGAGTGGCNCACANGGCTCCAAANTGATGAGCTTG
GGATCGGCATGANGGGAATGGGTC

SEQ ID NO: 1610 ACAACAGTGAAGTAGAACAAGGTAAATGAATTAACAGGAGGACTAGAGG
AGACTTTAAAAGAAAAGGATCAAAATGACCAAAAACCTAGAAAACTTATGGTTCAAATGAAAGTT
CTCTCTGAAGACAAAGAAGTATTGTCAGCTGAAGTGAAGTCTCTTTATGAGGAAAACAATAAACT

CAGTTCAGAAAAAACAGTTGAGTAGGGATTTGGAGGTTTTTTTGTCTCAAAAAGAAGATGTTA
TCCTTAAAGAACATATTACTCAATTAGAAAAGAACTTCAGTTAATGGTTGAAGAGCAAGATAAT
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CTTAAAGAAAATGGGATCAGAAAGTTTCAGAAAGACAGTGAAGAAGAAAGATGTTGTTAATGTCCTAC
AGGCAGTCGGGGGAATCCTTGGAATAAATGAGGAAAAAATGCACCTGGCTTTTCAGCCGTG
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SEQ ID NO: 1611 ACCTGGTAGAAATTGTGTCTTGGAATGACCCTTCGAGTTATTGACATGGCTC
TGATGAATAGAACATGAGCCCCAAAATAATCCAAAAGGAATTTTCTATCTTCATCCCCACAT
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CAAATTTAAGCCATTGCTGCTCATTAGCCTTGATTTTGTGTGCATATCATATATCCAGACCTGTAT
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SEQ ID NO: 1612 ACAGAGGGGTCTGTTTCTAAGTCTGGAACCTCAACACGAGGCTGGGATGCTT
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TGCTGAGTGACGGTTAACATATGAAACAGAATTTTATGGAGATTCTTTGTTACAAGGAGAAATGCG
TCAGTCTCAACTCCCCAAAACGTGAAAGTTGCTGTTTAAAGAGACTATGTTTCTTTTTCAGCT

SEQ ID NO: 1613 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGAAANACTGCTTTATTGGNGGC
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GGGAAATGAAGCCACAGCCNGCTCATNTNTGGCATATGCTGNTCCACCAACTGNAANAATCATGG
NGGCTNTATCAGGAGGACATCAGCTACCCCAACCTTTAATACAGGGGAATTCATCATCCTCCTGG
AACAGTTTTTGCTTCTCCGGAACCTTATTTTAAATGCCTGCGGGAAGCAGTGCTTATCGTNTCTG
CCAAINTGACGAAAACCANCAAAATTC

SEQ ID NO: 1614 ACATAGGTAACCAAAGTATATAGCTTATTTGGTGAATCTTCATCCTCATTACT
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CTTNTTTGCGGGACCNTTCTGNANNGCCCAAGTGAAGGACCCNGGT

SEQ ID NO: 1615 ACAGGATAATATACTCAGATATTTTAAATAAACTACTTAATAATAAGAAA
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TTAGCTAACTGTAGTTCACTTAACATCTTTGGGAAGGACCCAAAAAATCTGGCCATTATTTCTN
AAACATCTGCAAGCTGCAGAATTCCTTANCCTCAGCTATAGTTTCTGCTAGATATCTTAANCTGGG
ACAGTTCCCTGTGACTCCTCCTCAGNTATGGGGGTGGG

SEQ ID NO: 1616 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGNANATTAAGGCTTGTTTTATT
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NGCTTGCGTGCTTCTTGGTCTTAAACCTGCGGGCCTCAGCCTGGTCANCCAGNAGCTTTTTCGG
GCCTTGCTGCTGCTTCACTTGNNGATGTGTTCCATGAAAATCCGCTTGTTTTTNACACATTCCCCT
NACCTTCAGGGACCNTGCCCGGGCGGCCGNTCNA

SEQ ID NO: 1617 ACCTCGGGGACCTGCTGGAGACCTGCCATTTCAGGCCTTCTGGCAAGCCCT
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SEQ ID NO: 1618 ACCAGCTGGCACAGGAGCAGGGGGCATGGCACCTCTGTTGTTTATGCCCATAGCACCTCCCATAGCCATCTGACCCATCCGAATCTCCTGCTCTCTCGCATCAGGGAAGGTTCCCTTG AATCCTTCCTGCTGTGCGCCGCATCATTTCTTCTTGCTGCCGCCGCATCTCTTCTTCACGGCGCCTGC GCTCTTCCTCCTGCCTGAGCTCCAGTTGCTTTTCGTTTTTGCACCTCTTGGTTGTGCAGCTCTTCCATC CTCCGAAGTTCTTCTTGCGCGCTCATCAAATCCTGTCTCATTAGCATGACCTGGTGCTCATGGCGTG CAGCTTCATCTCCATCTCCAGCTTCTCACGAGCCTCTTGATGTTGCGGCCACTTGGCCTGCTGCTGT TCTCCATCTCAATGAGTGCCTTCAGCGCATGGCATATTATACTCAAGGAG

SEQ ID NO: 1619 ACTTTTATTCTTTTTTTTTTTTTTTTTTTTTTGGAGACAGAGTCTGTCTCTGTTGCCTG GGCTGGAGTGCAGTGGCCCAAGCTACGCTCACTGCAAGCTCCACCTCCTGGGTTACACCATTTCTC CTGCTTCAGTCTCCCGAGTAGCTGGAATTACAAGCACCCGCCACACGCCCAACTAATATTTTGTAT TTTTGTAGTANAGACGGGGGTTTACCCGTGTTAGCCAGNATGGTCTCGATCTCCTGACTTCGNGATC CTCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGNGAGCCACTGCACCCAGCCTTTTTTTTT TTTTTTGAGANNAGTTTCNTTCTTGTTGCCAGGCTAGAGTGCAATGGCATGACTTGGCTACTGA ACCTNCGNNTCTAGGTTTCANGCGATTCTCCTGCCAGCCTTTGAGTAGNTGG

SEQ ID NO: 1620 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTNGTTTTTTTTTTTTTTNATATT TNATTCAACTTTATTAATAAATAAATACTACANAAACCAAACCGAATGCNCAAATAAAAAAGNGGG GAAACAAACAGGGANCAANGGCAGCTGATAACTGNGGCNAGNGGATAATCCGNATGACTCANAT CCCACCCCTGCNACTGAGGAGCCCAAAACNCTGCGCTGGCACTGTGCGNGCCCTNTTCCACCANAG GGGCNCAAAAACCTGCNGGANACTGAAAACGATTACAAACNTNTTCAACCAGCTNTTTGGCCAAA GGCAGNAAAAGCAGCCTGAATACNCAACTCACNCCAANAGGGCAGCAGCTCTCCTGACATCCATG TAAGANGGNTAACACCTAAACCACACGCAGGCNTCTGAACCTCA

SEQ ID NO: 1621 ACACACTTTATTTACTTCGTTTTGGTTAAGTTGGCTTCTGTTTCTAGTTGAGGA GTTTCCTAAAAGTTCATAACAGTGCCATTGTCTTTATATGAACATAGACTAGAGAAACCGTCTCT TTTTCCATCATAATTCTAATCTAACAATGGAAGATTTGCCCATTTACACTTTTGAGACTTTTGGTG GATGTAAATAACCCCATTTCTTGCTTGAACACAGTATTTTCCCAATAGCACTTTCATTGCCAGTGTC TTTCTTTGGTGCTTTTCTGTTTCAGCATTCTTAGCCTGTGGCAATAAAGAGAACTTTGTGCTACAT GACGACAAAGCTGCTAAATCTCCTATTTTTTAAAATCACTAACATTATATTGCAATGAAGGAAAT AAAAAAGTCTCTATTTAAATTCTTTTTAATTTTCTTCAGTNGGTGTGTTTTGGGATGTCTTATTG

SEQ ID NO: 1622 ACTTCTCCGTTGACAAAGAAATTCTAGGTGAAATTAAGAGTCATGATCTGAA ACCTAATGGTGGCAATATTCTTGTAACAGAAGAAAATAAAGAGGAATACATCAGAATGGTAGCTG AGTGGAGGTTGTCTCGAGGTGTTGAAGAACAGACACAAGCTTTCTTTGAAGGCTTTAATGAAATTC TTCCCAGCAATATTTGCAATACTTTGATGCAAAGGAATTAGAGGTCCTTTTATGTGGAATGCAAG AGATTGATTTGAATGACTGGCAAAGACATGCCATCTACCGTCATTATGCAAGGACCAGCAAACAA ATCATGTGGTTTTGGCAGTTTGTTAAAGAAATTGATAATGAGAAGAGAATGAGACTTCTGCAGTTT GTACTGGACCTGCCGATTGCCAGTANGAGGATTTGCTGATCTCATGGGGAGCAATGGCCANAT

SEQ ID NO: 1623 ACTTAAATATATATTTATTCATTTCTACATATATAGAAGTTGTAGGTAAAGTA GAAAAAGTTCCCACTAGGAAGGTAATTAAAGGTTGTTAATGTTCTTTTATCACTTAGTAGCCAGA AGACATGCTTATTTCTGCTCTCCAGAAGCAATGTTAGCTACTAGTTTCTGAATTCAGGAAAACGTT TATCTTTCAGGAAGGTTTACGTGAGATATTTATTCAGTCTTTTCTCAAACCTTCTTCTCTTTTCATT ATAGGCATTATACTGAGAGTCTGTTCCAAAAATTCGATCCCACCATGTAAATGTTGAAGCATAGTT TCCAATGAAGTTCATGTGGTGGAAATCATTGATGCCGANAACCAGCATAGANAGGGATCAGATTT AGGGGTGAGAGGAATATCTAACCCCTTTGGACATCAATAGTTCTAATAAACGANTG

SEQ ID NO: 1624 ACTGTTAAATGTGGATGGCACCCCTCCCAAGGATTGAAAACACACAGCTGGA TCATGCATCTGGAATATTTTCTTTTTATCCAGGAAAGTGTTTTCTCTGACTTCTTGATATGTGCAC ATCACCTTACACGTGGTGCCCGAGAGCCCCGCCATCGCCATCCCCGCCCTGCATCTGCATCTGCAT CTGCGCCTGCATCCTTGCAATCATCTCTTGATGCGGCGGAGCTCANCTTCTTTTTCCAGCAAGATC TGGTCTTTATTTCATGTCCTCATTCTCCACTTCTCTGCCGCTCTCTTGAGTCTCTCAAACCGAAGT TTTTATAATGAAGGTCCTGGGTACCTCCTGGAGATCCTGCATGTGGGTGATGAGCATGGTTCTCA CTCAGAAAGTCATTGTCTCTGGGTTCTCCCTTCAACAACCCCCANGGTA

SEQ ID NO: 1625 ACCATTTATTTGTCTGCCGCTTTTAAAAAATACCCATTGGCTATGCCACTTGA AAACAATTTGAGAAGTTTTTTGAAGTTTTTCTCACTAAAAATATGGGGCAATTGTTAGCCTTACAT GTTGTGTAGACTTACTTTAAGTTTGCACCCCTTGAAATGTGTCATATCAATTTCTGGATTCAATAG CAAGATTAGCAAAGGATAAATGCCGAAGGTCACCTTCATTCTGGACACAGTTGGATCAATACTGAT TAAGTAGAAAATCCAAGCTTTGCTTGAGAACTTTGTAAACGTGGAGAGTAAAAAGTATCGGTTTTAT TCTTTGCTGATGCCTTCTGCTTGAAATAACAGTCACCATACAGCTAAAGGAGAGGACTTTNTTCC

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SEQ ID NO: 1626 ACCTACAGACACTTTTACAGAGTTAATACTAAAATTACAAATTGATGACACTT
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SEQ ID NO: 1627 ACGCGGGGGCGTCTTGTTCTTGCCTGGTGTGCGGTGGTTAGTTTCTGCGACTTG
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SEQ ID NO: 1628 ACGCGGGGAGTGACGGTGGCGTTTCCTTGAGGAAGAGTGAGGGTTCCAACCT
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SEQ ID NO: 1629 ACGCGGGGTGGACTGTTGCAGCACCCCTCCCTTGGTCTCCCAGTCTGAAGTCTCT
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TTTAAAAAGCTCAGAATAATCTTCTCACCGGGCGCAGTGGCTCACGCCTGTAATCCAGCACTTCG
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SEQ ID NO: 1630 ACTCCATCCCACAAAAGAATTCTTGTTCTGGTCTTTTCAGCCAGGTAAATAAGG
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SEQ ID NO: 1631 ACGTGGGCTATCAGTAGATCTACCATTCTGGGGTCTGGAGGATGGTTGCCCTC
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CACGGGGACCCNGGGCCTGNTCCACAGAGCCATTTTTTCTAGCTTCTGGGCCTGTGATGGGGANG
GG

SEQ ID NO: 1632 TACGCGGGGACGTTGCCAGCCGAGGTTTGGACATACCTCATGTAGATGTGGT
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TGTA AAAA

SEQ ID NO: 1633 ACGCGGGGGGTTCCGGCGTGGCCATTTTCGTTGGTGGTGTTCAGTTGTGGCGG
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SEQ ID NO: 1634 ACATGGAGAGGAGTATGGTGAGCTATTTCTTTTTTAAAGGATGAGACCTTCAT
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SEQ ID NO: 1635 ACAGAAGTTTTTCATCTATGAACATGGCCTCATCATCACCTGCAGCCTTGGCCT
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SEQ ID NO: 1637 ACCCACCAAATCCATGGAGAGAAATTTCTGGTGAAGCAATTGATCTGATAAA
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SEQ ID NO: 1641 ACAACTTATAGAAAAGGTAAAGGAAACCCCAACATGCATGCACTGCCTTGGT
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SEQ ID NO: 1650 ACACTTGACTGTTTCCAAAGGGAGAGAGGTGATGTAGTCTTCATTTACAGGGG
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SEQ ID NO: 1652 ACGCGGGGGCNGTCTTGTTCTTGCTGGTGTGCGGTGGTTAGTTTCTGCGACTT
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SEQ ID NO: 1655 ACCAGTGTGGAGAAATGGGCTGGTTAACTGTGTGGGGCCAGACAGTCATTTG
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ACAGGGTGCCTATAAAAGGTGGCTTACTCCTTATTGTTATTATACTATCCAATTTTAAATGCAGT
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SEQ ID NO: 1659 ACTGGGATAAATGAAGAAGAAGGCATAAGGACAATAAACATGGAACCTCCAC
TGCAAATGGATTTTATGCAGCTGAGGAAAGTTTGGGCTTATTAGTATTTGCTCCAGCGAACCTCCA
AGTTTTCTCCATTGCGGACAACGTAACCTACCAGCTCCTTGGCTCAGTGGTTCGCCTCCACTCAGAA
GTTCCCAGTAGGTTCTGTCTATTATTGTTGGCACATAGGCCCTGAATACAGGTGATATAGGGCCCCC
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AGGAAGACAGAACCATTANCACAGTGACATTGGTGAAATATGTTTCATTGATTCTCACAGAGTAA
TTGACGGAGATATATGATTGTGAGTCAGGAGGTGTACAGTATAGCTCATCAGCGGAATGTTGAG
TTCCTGAACAGAACGCAAGAAGAGCTTGTAATATCAANAGNCTTTCCATCAGGCAGTAAACCTGG
CTGCACGTTGGATTNTGATGCTNCTGAAAATTNCGGGGCTGTNTAANTGTNGCATNCNCAITTA
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SEQ ID NO: 1660 ACAACTTATAGAAAAGGTAAAGGAAACCCCAACATGCATGCACTGCCTTGGT
GACCAGGGAAGTCACCCACGGCTATGGGGAAATTAGCCCGAGGCTTAGCTTTCATTATCACTGTC
TCCCAGGGTGTGCTTGTCAAANAGATATTCCGCCAAGCCAGATTCTGGGCGCTCCCATCTTGCGCAA
GTTGGTCACGTGGTCACCCAATTCTTTGATGGCTTTCACCTGCTCATTACAGGTAATGTGTCTCAATG
AAAGTCACCCAAATGGGGGNCATTTTGGCAANTGGCCAGTTTGTGCAGTCCANTAGTACTGATT
CANATTTTTTTTCAAATNGAATGCCACTCCATTGATTCANCCGCTNTCCAGTNTTNNAAGTATG
NTTCTTGATNTNCTGAAGAAAATTCNGCCCCCTTGGTGGTTTGG

SEQ ID NO: 1661 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATNGGAAANACTGCTTTATT
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ACNNGCCCATANAGAGCTGAATGAACTGAACCAAGCGATTGCTGGGATGACTGAAGTCACTCCT
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AACNATGGNNGGCTCTATACAGNGGGCTTAACNTCCCCNCCCTTAAANANNANGGGAATTNCAT
NAATCCTCCNGGAACANTTTTGNTTTTCCGGANCTTTTTTTTAAATGCC

SEQ ID NO: 1662 AACTCTCCATCTTAAATGAGCAGCGCATTCGGGGCATTTTATGCGATGTCAC
ATCATTGTGGAAGATACCAAATTTAAAGCCCATAGCAATGTTCTGGCAGCTTCAAGCCTGTATTT
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GCTGAAGTGTCTACTGAAATACTTAATTATCTACAGTTCCACAGTCGTTGTCAAGAGACAGGAA
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TCGTAACAGAA

SEQ ID NO: 1663 ACATCTTGCCTAGATGTCGATGACTGCAAGTAATAATACAGTTTATAATGAA
ACTATCTACAATTCTTGTTTTAGCACATCTGTTATCCGTAAAAACACCTGTAAGTACTAGCTTTTAAAT
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SEQ ID NO: 1664 ACACGGCCCCCTTCACTTCCTTTTCAGCCACAGTCTGTAGTTTCCATCCGAAT
ACTGAAAGACCACAATGCGACCTGCTTGGGCTCTGCCTCTTCAGGATACACCATGCTGTGCCCA
CAATGAAGTAAGTGTGGGGTCTTTGCCAGCTTGCAAGAAACCAGACTGAGGGCATATTCATTCT
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CTCCACCTNTTCTTCAAAGGAGGGCTTATGAAGAACAGTGCTGGTGGANAACAGCTTGCTGGANC
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GGACTTCAATGCGGTGGAGAGGACCCGAACATNGGACCTTCTGGTACANATCTTCTGGAACAT
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SEQ ID NO: 1665 ACTACAGCAGTCAAAGAGATCTCCACTAGAGATCAGAAAGAAGCACCCTAT
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CCCCAGATGTATTCTCCCTTATCATGGAATAAAAGAGAGGNGCAAAATCTTCTTAACCTCCTTCT
GATGTTAAACAGATAAATCTCACTCCTTGAACCATGACTCTGANAGGGTTGATCATNCCTGNCCG
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SEQ ID NO: 1666 ACAACTTATAGAAAAGGTAAAGGAAACCCCAACATGCATGCACTGCCTTGGT
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SEQ ID NO: 1667 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAGCNAAGTTTCATTTATTTGNGC
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TGGGANNATNTNTCTGAACATTTTGGCCNCCTTATTGGAAAAGTTTCTGNACTGGGGGGCCNAA
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TAAATTTT

SEQ ID NO: 1668 ACAGAGCACATAGACCAAGGATGGCCAGTAGTAAGGCATGCTGTGCTCTCC
AGTGGGGTCTGAGGCAGTTCAAATAAGGCCTCCTGGAAGAACGGCCCCCTTCTTCAAGGAGCTC
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 ANACCAGATAATTTGNAACCCTTTNTTGGTTGTTAGATAAA

SEQ ID NO: 1669 ACGCGGGGGTCTCTGGTTTCTGGCCCTTGTCTGCAGAGATGGCTCCCAATGC
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 TCTTTTGTCTGGGCTCCAAGATCTTAAAGCCACGGAGAAGCCTCTCATCTTATGGCATTGACAAAGA
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 GAGTCAGGTGATGANGCAAAGAAGCCCTCCTTCAGGTGCGAAGNCCAGCTNATGGCACAAGTGA
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 GAAAATGGGAAATATGCAAATACGNTTAAAAGGCNATTACTTTCTGATTNTGATGGAAGGTGAC
 ACCTGGGATGGNGTGGANGGTNAACTTTTNTTAATTTTAA

SEQ ID NO: 1670 ACCCTTGCCAAGTTGTCTACAAATGCTTTGTCTGATTTTTCTACTGAGTTAGAC
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 AAATGACATATTTCAATATGAGTTCTGTGGCAGTCTCACATGGAAGTCAGGAGTAACAGCCTCAA
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 TAGGATATTTAGCAGAGAACTCATCNTGTGNACATAATNCAGTGATTCTCAATTCTAAAAACAA
 GAGACTTTGACTTGCAACAGGNTTGCAAGCATCAACTTANGTG

SEQ ID NO: 1671 ACCAAGAACCGCTTATCCAGATTAATATAAGTGAAAGCCTTTAAATGCAGG
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 TTTANGGCACTGNCCAATAGCTGTCAANAAGAAAGTTTGGNTACATGGGAATTANNTGNCCNGTT
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SEQ ID NO: 1672 ACCCCCAAATAGAAAGAAGTGACTGGATGTTGGAAAACCTTAAAAATGATAC
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 CTTGGTGAATATTCAGATTGTCATATTCATTTTTTACTAGCAAAAACCACTGCTGCAAAGAGAAT
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SEQ ID NO: 1673 CCAGTTCTTTTACAATACAATATTTTGGTATTTAAATGACCTCTAAATGGTTA
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 ANAGCANTTATTTGTTATTNTAGCAANNNGCNCCTTTNCTTGGAAATNAAATGTTGGCCANTAT
 TTTGTNGTTNAAAAANCCCAAAAAAACCTTTTTCCCCGGTNGGGANTTTTTCTAAAAACCG

SEQ ID NO: 1674 ACGCGGGGCAACTGATATATCTTTAGGGTGAGTTACTGAGGCTGTTTCAGCTG
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TGGGATACTGGTGNAAATNGTAATGACCAAATGGCACCATAAAGTGGG

SEQ ID NO: 1675 ACAAATACGAAACAGGATTATCTGATAGTAGGCCTCTGTGGATGGCATCAAT
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NACTNTAAAAAGTTTAAGCGCNCANCTGCCAGGCAAAAAATTTNTTGAAGCTNNGCTTAGTTTTT
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SEQ ID NO: 1676 ACACAATTATGAAACTATGCCAGTAGCGACCTGCATGTTTGTCTCATCTCTTT
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TGGTT

SEQ ID NO: 1677 ACACAAGGAAAGAGCCCAGAACCAAGCTCAAGATACCTATTCAAAGATCCCT
GCCAGCCAGGTGGGCAGTTGAGTGCAGATTCTGCGACCCCGCCATTTTGTGTCTACTTAGAA
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GCAGATGATAGGCGGTGAGCCGCCAGGCTCCACCAGGAATGACGAAGTCTGGTTGATTCTCTTCC
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TCTGCCCAAATTGANCTGGGGCCTCCCTTCGCCTCNACT

SEQ ID NO: 1678 ACGCGGGGGGATTTGCTGAATTAATGACTATTGAATTTAAACTAATTATGA
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CTCAGTAACCATGACCTGCTCCTCCATTTCCATTTATTCTCAACATTAAATAGTTTTATCTTGTGTT
GCCAGAAATGCACTTGTGCCAGGTATTGTCCCTGCTGTATGAAAAGCTTCTTGCCAATGAATTCTG
TAATAGTGCCTACATTNTGGTTTTCTGGGNGGAATTGTTTAACANTNNCAACCCAAGGANTTNC
CAATATANTTTTGTATTATTGTNTTCCAAANATTCACT

SEQ ID NO: 1679 ACTAAACCCAGTAAAAATTGTTGAAAATGTTAAAGGTCAGCATGTTCTAATT
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AGGNGGTACCCNNAANANATNTACTGTTGTGGGANGGGGAATTGTAAAAAGACTTATAANTTTN
TGCCAGCAAAGNTCCTAATT

SEQ ID NO: 1680 ACGGTATATATATTTTAAATATTCTCACACACACATGCAATCCATAAAGCAAT
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SEQ ID NO: 1681 ACTAAAAAAGATTTTGAGGATTTATACACTCCTGTGAATGGATCTATAGTGAT
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 GNNACCAATCCTTTTTNNANTNGGCCAAANAATCATGGGGCCTGACTNAAATCGGGG

SEQ ID NO: 1682 ACGCGGGGATTAAATGTCCCAAGCAAGGATAGGGAAGGGGAATGGTTGAGT
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 AGGACCCGTTTGGGGCAGCAGGGAGCAAATCTCCTTTAAACAACCAAGCAGTTCCTCATTACAT
 CAACAGAGCGAGGCTGTGATAACTTAGGAGGCAGCAATCCTAATAGTCCTTCAGTTGCATTTTAGT
 CTGTCTCCAACCTGGACACCATTAGGCAGTGTGAGCCNGATATTGGGGCAGTAGATAAATGTTTCAT
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SEQ ID NO: 1683 ACTTTTTTTTTTTTTTTTTTTTTTTTTTCGCANATTTGAGTAACTTTATTTGCATTT
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SEQ ID NO: 1684 ACCGCCAGCTCTCTGCTCTCCACAGGGCTCCCCGCCCCACCCGGCCTGATAAA
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 NTNANACCTNTTGGNGNTNTAGNGGGACNTAGTAAATGGNATACTTTCCAA

SEQ ID NO: 1685 GCGGTCGCGGCCGAGGTAAGTGCAGCCCTCGGCCAAACGGCCAGACGCCGAC
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SEQ ID NO: 1686 ACTGTCGGTTTCAGAAATGCCTTGCAAGTGGGGATGTCTCATAATGCCATCAGG
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SEQ ID NO: 1687 ACCGCGGGTCCGTCAAGCTGGTGTGCTGACTAACCACATCCACAAAGCACA
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SEQ ID NO: 1688 ACTACCAGATAGAAATTCTGAAATTGGAAATTGGAGGCCAAAGCCTTAATCT
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SEQ ID NO: 1689 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGCCAATCCGTTTTTTAAATTCTTAAATTC
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SEQ ID NO: 1690 ACGCGGAAGATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTC
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SEQ ID NO: 1691 ACTGGGATTACAGGCATGAGTCAATATGCCCCGCCCGCAGTCTATCTTCTAA
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SEQ ID NO: 1692 ACAAAGAAAGTTTTAAGTCAAGGCCTCACCAATTCCTACAGTATTAGTATTGT
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SEQ ID NO: 1693 ACATTACACTAAATTATTAGCATTGTTTTAGCATTACCTAATTTTTTCTCTGC
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SEQ ID NO: 1694 ACAGTGGCATGATCTCGGCTCACTACAACCTCTGCCTCCCGGGTTTCGAGGGA
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SEQ ID NO: 1695 ACTCCA ACTCAAGTTTACAAGTTACACCTTTGCCACAGCCTTGGCTAAATCTT
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SEQ ID NO: 1696 ACCGTCTAAAGGGGCACAAGGATGCCATCACACAAGCATTGTTTCTACGAGA
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SEQ ID NO: 1697 ACAAAGGACGGAGCACCATCAACCCGTCCAAGGCCAGCACAAACCCAGATC
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SEQ ID NO: 1698 ACAAAGAAGCAGAAAGTGAATTTTCTTTTCCCAGTATGACGAAAAATTGGA
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SEQ ID NO: 1699 ACGCGGGATCCACGGGCTGCACCGGCACCCTGGTGGCAGAGAAGCATGTCTT
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SEQ ID NO: 1700 ACATGAAGTATATGCTGTGGATGTTCTCGTCAGCTCAGGAGAGGGCAAGGCC
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SEQ ID NO: 1701 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTTTTTTTTTTTTTTTTTTTTTTCCAGCC
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SEQ ID NO: 1702 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTANANTTATTTTTATTGACAAGG
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ANACAGAANTTTGAANGACAAANTTAAGTCTCATTCAGGAGNGGCCATTATGTTGATCATCTANA
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SEQ ID NO: 1703 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGAATCTGAAGTCTTGTGTTTTACTAATG
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CCTGACAATGGTCCGCTTCGGGTCTGATGCCAAAGGAATGTTTCATGGGTCCCAGCCTCCTGTTCTT
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SEQ ID NO: 1704 ACTGGGAGATACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCTGCCATT
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SEQ ID NO: 1705 ACTTTTATCAAAATCCATCATAAAAGGGAAAGAAGACTACAAAGTTTTGCCT
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SEQ ID NO: 1706 ACGCGGGCCAGTTGCCAGAGTGGAACCTCGCTTGATAATGCACCTTTTATTG
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SEQ ID NO: 1707 ACAAATTTTCGATTGTTAGGAAACCAAATGTTCTGAACATTATTTTCATTAGAA
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SEQ ID NO: 1708 ACAAATATTTAAGAGTGTGATTGGGAGTAAGGGAATGTCAACTGCCAATAA
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SEQ ID NO: 1709 ACAAATGTTTTTTATTCAAAAATACAAAATAAATTATCTGTAGGCATGGACA
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SEQ ID NO: 1710 ACACGGGGGGAAAGACAATCATTGAATACAAAACAAATAAGCCATCACGCC
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SEQ ID NO: 1711 ACTTTTTTTTTTTTTTTTTTTTTTTTTTGTCTTTTTTTTTTTTTTTTTTTTTTTTTT
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SEQ ID NO: 1712 ACCAGCGAAGCACCTCAGCCCCCTCGGAAGAAAAGGGCCCGGGCAGACCCC
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CANTGCCCATGTTTATGGAGCACCAACCTACTGAATNTTTGTAAGAATTGGACATTGTGGCCTNT
CGCCCTTTGATGAGAAAGCTTGATTATTGTGGCTTTTCGNTGATTTCTAAAT

SEQ ID NO: 1713 ACGCGGGGGCTCACTCTGCGCTTCACCATGGCTTTTCATTGCCAAGTCTTCTA
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SEQ ID NO: 1714 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATGGAATGATTAAAGATGTCTTTAT
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SEQ ID NO: 1715 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGGGANCCAAGGAAGTTTATTT
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SEQ ID NO: 1716 ACTCTGGTAAGCTTGTGTTGTGTTGCCAAGTGAAGCTCCCTCAGATGAGGCGTGT
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SEQ ID NO: 1717 ACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAACACCACCAGTGGTCTTA
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SEQ ID NO: 1718 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGATGCTTTTCATTATCACANAACAC
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SEQ ID NO: 1719 ACGTGAACCACAAAGTGTATACCAGGCATATGACATGGATCCCCCTGGGGAA
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SEQ ID NO: 1720 ACGCGGGGGGAGGGGGAAAAACGAAAATAAACGAAGCTTGCAGCACACTCT
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 CGTCTCTAGCACCTGCTCTTAACCTTTTCTGTGAAACCTGTTCCCTCAGTG

SEQ ID NO: 1721 ACCTTTGTCACAATCCTAACACATTATCGGGAGCAGTGTCTTCCATAATGTAT
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SEQ ID NO: 1722 ACGCGGGGAGGTTCTGGGAAGATGGCGAAGGTCTCAGAGCTTTACGATGTCA
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AAGCCATGNAAAGATATGATGATGCTATACAGCTATATGATANGATTTTACAAGAAGATCCACTA
ACACTGGTGAACCCCATCTCTCTAAAAAGCAATAATTACTGGGCGTGGTGCATGTCCTGAATCCCC
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SEQ ID NO: 1723 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGNTCAAGTTTAATACAACTAC
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NAGGTTTGTCTCANGGCTGCCACCAGCANCCTGCACTAAAACAGCCCAGCGCTCACTTTTGCTT
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GCACACTTCCCATGTTGGNAGTGACTGAANCCTGACTANTCTCAAAGCTATCCACAGACGGCAAC
ANGNAGGCATTANAGTGATTNGCG

SEQ ID NO: 1724 ACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAA
TGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCTGGG
TGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTTCATCTTCACGCTTTTCTGGGCATATA
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GACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTCT
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SEQ ID NO: 1725 ACACATGATGAAATGAAGCAGAAGCTGGGAGTCGGCCTTTCCTCTAGTAACC
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CAGAACATGGGGCAGGTGGCTGGTGTGGTGTCCCAGCCTAAGAGCCACCTGCTGCAGTTACCAT
GGCATGCTGAGTTGATGCACCAGGTGGCAGCAGCCATCCGTTATTATTCCAATGGAGACCTAGCC
CAGGCCAAGGTTAAGTTAGTTAATAGCATTTGGGATATAGTCACTGTAATGGTGCTATTAACAAAC
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SEQ ID NO: 1726 ACTTTTAAATCATGTTCCCCCTAAACATGGCTGTAAACCCACTGCATGCAGA
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TTTTATGGGGCCCTGTCCAGGTAGAAAAAATAATGGTATGTAGAGCTTAGATGTCCCTATTGTGACA
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SEQ ID NO: 1727 ACACCTGAAACCAAATTTCTAAAACCTTGTTTTTCTTAAAAAATAGTTGTTGTA
ACATTAAACCATAACCTAATCAGTGTGTTCACTATGCTTCCACACTAGCCAGTCTTCTCACACTTCT
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ATCCTGGGGACATCTGCCCATCAGGAGAAGGNGTTNNCAGTTGTTTATAACCAGATTGAGGAGGA
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SEQ ID NO: 1728 ACCTATTTTTTAATTGAGACAGGCCACTTTATTAATAAATAGGTCCAAATGTAAC
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SEQ ID NO: 1729 ACTGGATGGCCCCACAAGATGCTGCCACTTTAATAAGGCTGCAATACACTGT
GTATCTTACAGGAGTTTTCTAATACATCCNG

SEQ ID NO: 1730 ACTGGATGGCCCCACAAGATGCTGCCACTTTAATAAGGCTGCAATACACTGT
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CTCCTTCAAACACACATAACAGGCTTTAATAATTNGAGCTAAATCAACATGAAGTCACCTTNCAG
TCTTTTCTGAAATCTCAGTTCCGTTAGATTTCAAANNANNACGAACTANCAANCTGNCTTTTTATT
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CTTGCCCGGA

SEQ ID NO: 1731 ACATCATAATCGGCGACACAGGTGTTGGTAAATCATGCTTATTGCTACAGTTT
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ATACATTCAACCACTTGACAACCTGTTAGAAAATGCCCGCAGCATTTCCAATTCCAACATGGTCATT
ATGCTTATTGNAATAAAAGTGATTTAGAATCTAGAAGAGAAGTAAAAAAGAAGAAGNGAAGC
TTTTGCACGAAACATGGCTCTTTTCATGGAACNTTNGTTANACTGNITCCATGTANAANAGCTTN
TTTATCNNCAAAAAGAATTTTTGAAAAATTCANAAGNGTTTTGNITTATATGAGCAAANGCTTAAATT
GCCTANATGTGTTCCA

SEQ ID NO: 1732 ACTATAATGCCAACAGGGCATTTCAGAAGATGGACACAAAGAAGAAGGAGG
AACAGTTGAAGCTTCTTAAGGAGAAATATGGCATCAACACAGATCCACCAAATAAATGTTTTCT
ACATTTTCATTTGGACTAAATCCCACGAATGACAACCTACCACCTTTTTTTCTTTTAAATTAATACT
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CATTATGTTAATAAACTTGTAGCTTTTGTAAAAAATAAAAAAAGTACTCCCNAAAN
CCTATTNCCAAACAGGCAGAAATCTTTCTATATTAAATTGCACNTACTAAAAAATTTTTTCACGGC
CTNGAAATTGATATAAGATCATTGCTCATCATTAGGATAAAATACTGAATTTTCTGGAAATAATN
TNTTCAGAGAAAAATTTCTTTACAANTCTAGTTCTTGCCAGAAAAAGGTCTTCCNAAAAACATCA
TG

SEQ ID NO: 1733 ACATCCCAAGAGATGTAGATGAAACAGGTATTACTGTAGCCAGTCTTGAAAG
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SEQ ID NO: 1734 ACGCGGGGAGTTTTCAACTGACCTCTGGACGCAGAACTTCAGCCATGAAGGT
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GTGGGACTGATGGAAATACTTATCCCAATGAATGCGTGTTATGTTTTGANAATCNGAAACGCCAG
ACTTTTTCTCATTNAAAAATTGGGCCTNGCTGNGAACCAAGTTTGAAATTCCATCTAGGTAACC
GNNAGGCANAACCTGNCTTATTGTGAATAAATAG

SEQ ID NO: 1735 ACCTCAAATCTGCTCTGGAGTCGATTATGCCACCTGTGTGTCAGGATGCACCT
GAAAGCCCTCGGCTCGNCCCTTAGACCATCTTCTACATTACCTGGAAGGGAGCTGCCATCTGTCC
CTCTGCANAGGGATACCTTCCAATAGTAAATTATCTGGTTCCTCACTGAAACAAGTTATTTTTGCTT
CATATAGTCAAGAGTCAGACTGACATGATAAAATATCATGTTCTTAATCTGTTGTCTCAGATAAGT
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TNNTNANATGCAGGGTTCCACATATGGAATGCAGACAACCNNTTGT

SEQ ID NO: 1736 ACGCGGGAACCCAAAACCTATAAGAACTAATAATAATCCACCACTCTTTGCT
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 CCTCCCTGGGAGATCAATACCCTGTCTCTTGTCTTTGCTCCATGAGAAAGATCCACCAATGAC
 CTCAGGTCCTCANAACAACCAGCCTGAGAAACATCTCACCAATTTCAAATCCGGAAGCAGNCTC
 TTTTACTTTATTTTCAACCTNCCTCACTATCCCTCAACCTCTTNTCTTTCAATCTTGCCCCACATT
 TCTATCTCTCCCTTCTTTAATTCAATCCTTTCAATTCTTTTGGTAGAGACAAAGGAACACGTTTATC
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 CCTTCTGATATCCNCGTNAAGNGTAGACNTGCNGGNACCTGCTTGNCTTTCCTTAGNCAGNCCA
 TTTTGGGAGGCANACTGCCGGCGGC

SEQ ID NO: 1737 ACAGTTGATCCCACTTTGGAATAAATGCCCAGAAGGTAATAAGCATTATCAG
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 AAACATATAGCTTTAAAAACTGGAAATCATTCATGACATTTGTTTCAAAGTAAACATTATCTGCA
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SEQ ID NO: 1738 ACGCGGGGCTCTCGAGTCACTCCGGCGCAGNGTTGGGACTGTCTGGGTATCG
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 CACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGGCAGAAATTGCCCAACTCATGTCCCT
 CATCATCNATACCTTCTATTCCAACAAGGAGATTTCTTNAGGAGTTAATCTCTAATGCTTCTGAT
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SEQ ID NO: 1739 ACCTACAGACACTTTTACAGAGTTAATACTAAAATTACAAATTGATGACACTT
 TCGAGGCAAAGCAGGGTAAGTGTCTTCACTGTTGCCATCACTGAATTGACCTTCACTGNTCCAT
 CATACTGTTNGGCTGAACACTGACATTCCATAT

SEQ ID NO: 1740 TCCCCACCCTGTGATCTATGAGGATAACCAAAGACCCTCTGGGGTCCCTG
 ATCGGTTCTCTGGTCCATCGACACCTCCTCCAACCTCTGCCTCCCTCATCATCTCTGGACTGAAGAC
 TGAGGACGAGGCTGACTACTACTGTCACTCTTATGATTCCACCTATCATGTTGCGGTGTTGCGGCGG
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 CTCTGAGGAGCTTCAAAGCCAACANGGCCCACTGGTGTGGCTCATAAGTGACTTTTCCCGGGAGC
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SEQ ID NO: 1741 ACTTGTCACTCAAAGACCCAGGCAGTCCTCTGGAATAGGCTTTCCAGCTGCTCA
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SEQ ID NO: 1742 ACGCGGGGGCCATATTATCAGCGGTTATTGCGGTGAGCGGTGGTGGTTTATTCT
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 CTGACTCGCCGGACACCTAGGCAATTCACAACCTGGCGGCCNTCTATGGACCGANNTGACCAACTG
 GNGACATGGCTACNGTTCCTGGGAAATGTTCTCTCAATCCACANT

SEQ ID NO: 1743 ACGTAACTGGAAGCAAGGACGGCTGCATCAAATTATGGGATGGTGTTCAAA
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TGTGTTTAAACACACCGAGGACTATGTGTTGCTGCCGACGAGAGGACGATCAGTCTTTGCTGCTGG
GACTCGAGGACAGCCGAGCGGAGAACCTGCTGCGTTGGGGCACAACAATATTGTACCTCGGCCGC
GACCACGCTAAGGCG

SEQ ID NO: 1744 ACTGTATCCAGCACACAGAAACCTCAGTGTTCCTCTGCTGGTTTGGGGC
ACAAGGAAGCCTTAGGGTATGGGNAAAGGNTGTTATTANCTAGAGGTTACTCCATNAGGTTTGG
GNTTG

SEQ ID NO: 1745 ACTGAACTTTGTGTTGACCATAGCCTTCTGTCTTTCATCACTTTATCTCCATG
TATGTATCCTTAAAGAATAATAAATGGATTTTAACTGAANAAAAA

SEQ ID NO: 1746 ACAAACACTAGGAACACAGAAAAGGACCAGAGAGGATGTTACACTGTAAAGT
CTTAGGACCTACTCTAAACTTCTGTCTCATCAAGACCCTCACCTAGAGACCTGAGGGTTCCAGG
TCCACTGGAGAAAGTAAGTAGTCTCCGATCATCACCTTGCTTACCGAAGATGGCCTCAGGTCAC
TCGCTGTCAAACCTAATAGAATTGACCTGGACAGAGATTGAGCCTCCCGGTAGCTGCCGCTTCT
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NGGGCTGAAGCTTATCTTCTTGGCCGANGAGCTTGCTCTGGAGCCTNTTGTTCGGTCTTATGACC
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SEQ ID NO: 1747 ACTTTTCCAGACACTTTTTTGAGTGGATGATGTTTCGTGAAGTATACTGTATT
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TGAGGCCTCCTCTCTCAGTTTTATATAGATGGCGAGAACCTAAGTTCAAGTTGATTTACAATTGAAA
TGACTAAAAACAAGAAGACAACATTAAACAATATTGTTCAAAAAAAGGATC
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SEQ ID NO: 1748 ACAGTGATTTGGCTATAGACTCTCGCCCTTCAGGGCAGACTGTCCTCAGTTC
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SEQ ID NO: 1749 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGCAAATTTCTTTAATGANAAC
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ANCCTCTTAGANCCCATTTGNTGTGGGCTGTTTGTCTCGNATGGCNCTTTNTCCATTTACTAGACC
ACTTGGGATTCTTTCATNCTTTTT

SEQ ID NO: 1750 ACGCGGGGGGAATCAAGGATCTAATTCAGCAGCATGTAAAGTTACAAAAAC
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GCCTACACACCTAGGAGTTTATCAGCACCTATATTTACTACTTCACTTAACTTTGTGGAGAAGGAA
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SEQ ID NO: 1751 ACAACATGACTTAAACCTTTTTTTTTTCTATTAAACCTTAAAGGGGAACAAAAAC
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SEQ ID NO: 1752 ACAAAGAATCCGTGAAGAGACTATTAAATGTGACATGAATTATGGAGTAGAA
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AGA

SEQ ID NO: 1753 ACTACACGCACCTGGGCAACGACTTCCACACGAACAAGCGCGTGTGCGAGGA
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SEQ ID NO: 1754 ACAAAGATGACTATAAACAAGATGCAGCCCTCGGTTTCCATGAACAGCACAC
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SEQ ID NO: 1755 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAAGTATATAAAAAACATTTATT
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SEQ ID NO: 1756 ACAAATATCCCCACTTCCCTTGAGAAAGAGTATATCTAAAATACACTTTGAT
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SEQ ID NO: 1757 ACGCGGGTTCTACTTCAACAAAGAAAAATTTTGAGTTATAGGAATAAGGACG
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SEQ ID NO: 1758 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAACTTTTAAACAATTTATTAGTCTTAT
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ATTAATTCCACATAAATATTTAAAAATCTAAAAACCTCANATCAGCANACCGAGTCGAAATGTGATT
CTTCAAAGCAAGTATTGCTTTACCCCTGCGTGAATGCAGTCCGTCATATGACCACTAACTTGCATG
TGACCAAATGTTGTCANAGGGTTTTTTANATATGCTCTNGGGGAGCCGCATCCGCAATCCAAGAA
NAANATGTTGTTGAACTGCGTTGCACAAAGTTTCTTGACCTCTTCATTIACCTCAATCAGGTTGCAT
TTTTTTGATTCAAATAACATAGAGCTCCGCGATCAGACTTTTTACACCCAGTAATCACTCATGG
CCTTCAATGACTCCTATCTCTCACTCTGGAAAGCCTGTGATGCCCCGAGATNTTCNTAATCCGGG
GCCGGAAGTGGCGAACCTGGNGTTCTATNGGACTGGCTTTTTTCGGGAGATATG

SEQ ID NO: 1759 ACTAGGCCATGAACTGGGGCACTGGAAGTTGGGACATNCAGNCAAAAAATATC
ATTATTANCCAAATNAATNCTTNCNGGGTTTTTTTTNATTGGCNGAATNAATGGGCCAAANGGAN
CTTTTNGCTGCATTNGGTTTTNATNATANCCANCCCACTCTTATNGNACTATNGATCATCTTCCAGT
TNATTTTTTCACCTTACAANGAGGTTCTTTCTTTTTGCCTAACAGNCCTAANCCGCAGATTTGAGTT
TNAAGCTGATGCNTTTGCCAAGAACTNGGGAAGGCTAAAGACTTATATTCTGCTTTAATCAAAC
TAACAAAGATAACTTTGGGATCCCTGTTCTGCTGGTTGTCTCATGNGCATTATTCTATCCTCACTGTA
GAANACTCAGCCTTGAAACTATGNAGCAANCTGNATNCCAGATCTGGACTGAANAATTTCTGATT
TTTCTGCCTGNNATGTCACCTTTGATTTTTAACTTTTTTAAAAAAAATTANT

SEQ ID NO: 1760 ACCTGTGTTTCATATCCTGAACTGCACCAAGGAATAGCTCCATGCTAAACTGTC
TTGGCTAAATAACAACAGTGCCATCATTCTTAATCAGACTAATAAACAGAATGTCTTTTAAAGGTA
ATGAGTTAGATGGCTGNGTTTAGGTTTTGTTTCAGGATTACTTTGGATTCTCCTGCTTTAAGACCCA
AAGAAAGTTATATNGAGTTTTATGGATGATTCTATGTGTTTTTAAACAGAGTGCGATAGGTGANTT
AAACATATTAAAAGAGTCTATAGCATCTGTCCAAAAAGATTATATNCTATACAACCTATCAANTANT
ACAAAACCATTTTCATTGCTTCAACTGAGAANATCTATCACACCTTCTCCTCTGAGNGGTCATCTG
ACAAGCTTGTTTCAGTTTTATINTCTAAAACTNANATCTTTCTTCGCCAGTNTAGCNANCANTTT
TTTGGTTTTNTGAGNCACTCTAAGGAGNTTAAATCCAACC

SEQ ID NO: 1761 ACATAGTGTCGCGANCTCAAATCGGCATTTAGATAGATCCAGTGTTTAAAC
GACACGTTTTTGCTTATAAAAAAGTGCAAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATC
CCTTTTTGCTGTAATTGCACCAGTTTTTAAAGCCTCTGGACAGAGCAGIATTTTCGTTTTAAACTTTGT
TTTTCTTAAAGCTTACAGNGTTTGCTAATTTCTCCTCCCCTTTTTACAAGACGGGGGCCGAGGG
TGGCCACTGGTGGCAGGTTAANGGGATCTGCNCTTTAAGAAGCCCNAAATTGAAGNGNAACTTG
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CAACCGGGTTTCNCGTTACCCCTTTTTTTTTTTTACAANAACCTGANAAATAANAACGTTTNANCC
TTGNTTTTTGTTTTTAAAGGGCAAAANCTCTTAATTTAAAAATAAANT

SEQ ID NO: 1762 ACTAAGTAGGTGAGAANCTGAAGTCCTCAAGTGTTTCATCTTCCAACTTTTCCC
AGTCTGTGGTCTGTCTTTGGATCAGCAATAATTGCCTGAACAGCTACTATGGCTTCGTTGATTTTTG
TCTGTAGCTCTCTGAGCTCCTCTATGTGCAGCAATCGCAGAAATTTGAGCAGCTTCATTAANAACCTG
CATCTCCTGNGTCAAACCCAANAATATGTTNGTCTAAANCAAGGAAAGCCCTNTTTGGTTNNATT
TGCTNANCAACTGNATCCTGTGTCAGGCCCTCNTGAACCAAAATCCNAATNGCNTTATGCATTAC
NANGTAATNANCNTNACCCCTGAATNTGAANCTGGTTACCAANNCNTCCNCCAGCCTAAAATCAGG

SEQ ID NO: 1763 ACGCGGGCTAGGTGGCTTTGACCCCTGGGGGATTAATGGCAGTGTACACAAG
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ACGTCTACGATGTGCAGGACATGTCCCCACAGCACAGAACTATCTGGCCCCACGTGTCAATAAG
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TTGCGGCAATGCCACGAGGTCAATTGAGACTCCCTGACTAGCATACATAATGTTAGGATCTAGGG
AGTTGCTAATGTCTACCTTGCTTCCAGCNTCTATGTGTGGCCTTAGCTTGGCTCTTTAAACTANN
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AGGCTGGCNTGATGGTTACCTGAATCCACACTTTNGAGCC

SEQ ID NO: 1764 ACTCTTTGGAAGCATTTGGACTTGGCTTGATCGTAGGAGAATCCGGTGTCCAG
TTGCTGGGCAGACTTCTCCATGTGTTTCTACATACTGGAACGCCTTACCAAGCGGGGGGTTTCT
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ATCCAGGCAAGATGGCTAAAAGTGGGAATCCACTGANCTGCACAACTTACAGTTACATCGNGAA
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AGGCAATCCAC

SEQ ID NO: 1765 ACGCGGGTGTGGAGAAAAGAAAGACCTCTATAAAGAAATGAAGAACCTTGC
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GGTGGCTTACACCTGTAATCCTAGCACTTTGGGAGGCTGAGGTGGGAGTATCGCTACAGCCCAGG
AGTTCAAGACCAGCCTGGGCAACATAGTAAGACCCTGTCTCTACATTTTTTTTTTAAATTAGCTGGC
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GAGTTCAAGGAAGCAGTAAGCTGAATCATGCTACTGCCTCCACCTGGCACACAGTGANCTNTTCTC
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SEQ ID NO: 1766 ACCAAGAACCGCTTTATCCAGATTAATATAAGTGAAAGCCTTTAAATGCAGG
GACGAAAGGTATCCCTCTAGCCATTCACTGGCACCAACCGATCCAAAGTCTCCAGCACTCCAAC
GGCAAAGATAATGCTTCTGCTGGGCTGAAACCCATCTTTAAGACCATATCTGAGAACATCTGGGC
AAGTTTCAATAGGAGAGCTGTGCCTACACCGGATTTTGACAGCTCCAGGGCCCCATGCATCTCTCTG
GGCCCCAACTACAACATAGTGATCTGGTTCTACAAAGCCTTTAATAACTCCAAAGATGTTAAGAAT
TTTTATCTCTTTCANCACTTGCTCACAGTGAGCTTCACATTCTTGCTTCTGAGGTACCATCCTAC
ATGTAGAGCTGTTTCANCAAGAGGANAGCTTCTCATATTCCCAACAGTTTTNTGCAAGTTTGAAN
TGCNGGACGGTTTTTAGNATCCTGTGACCAAATGNNGAAGTANTGNATGANGAAGGGANCAGG
NTNTAGGTNCTGCCAANACTGCAAAANGAAAGNTGGTTACATGGA

SEQ ID NO: 1767 ACGCGGGGCTCTAATCTTCCATTTTCTGTCCCTGAGTGAGTCTCTGGCGTCCC
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CATGGAGTCCACAGCCACTGCCGCCGTCGCCGCGGAGCTGGTTTCTGCCGACAAAATTGAAGATG
TTCTGTCTCTTCTACATCTGCANATAAAGTGAGAGTCTGGATGTGGATAGTGAAGCTAANAAAC
TATTGGGTTTAGGACANAAACATCTGGTGATGGGGGATATTCAGCANTGCAATGCATTNCAGNA
ACAGNTTATCCTTTTAATTAAGATGGAAGACAGCTAAANGAGNGTGGAGAACCCTTCTTTTC
NATGGAAANCACTTTGNAGTG

SEQ ID NO: 1768 ACTTTTTTTTTTTTTTTTTTTTTTTTNGGCCATTTGCTATGTTTTATTTTGTAGTA
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TGTATCAAGATAAATTTGGGTGCAAGAGAGTAACATCCATATGTTTTAATCCAGCTTNGAGGGGACAT
TAAGATTAAGGATTATAAAACTTGGCTGATTCTGCAACCAGNAAAAGGTTTGNACATNTTTGCA
GTAAAATAAAAAACNCTAATTTACAATAANCTGNNTTNNAGGCANTCGGGATTGGGGGGTCTGGG
ANAAATAGCCTCCTTCTNTTTTNTTAAAAAANANTGTTCAAACCTCCCAATTAATCTNGANNATN
AACGNTAATTTGGTCTTGAACCTCCCT

SEQ ID NO: 1769 ACTGCAAGACCCATTTTCCCTCCAGTTAATACACTNCCAGGATGGNCNGCAG
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ATGAATAAAGGACCCAGTTGTGCTTTCCTTCCAAAACCTCAACAAAGTGGTTNGTGCTCCAAGAA
AAATGTGGGAATAAAAAAAAAAATCATGTCCCAAGGCATCTTTGTGTGTGTCNGGGGGTGGCGGTGG
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GCTGAGCCGGAATCCGGACAATTATTGNCCGGAACCAAGTTGGACTACANAGAGTCCAAGAAAC
TATGATCCNCTTTACTCNNTTGAGGCCACNNAATANGGAAAACCTTAAATGCTACCAACNGGAC
GAGNTTGTCAAAACATNCCTGCTCNNTGATGGNCNGGNAGGAGNAATGGTGGAAANNTCCANNA
ACNGNTCTGCCTTTGGGCGGNAGGAAGGAAAATTGGATCACNACGGGATG

SEQ ID NO: 1770 ACATAGAACAGCCACAGCTGATGACAAAAAGCTTCAGAGTTCTCTAAAAAA
ACTGGCTGTGAATAATATAGCTGGTATTGAAGAGGTGAACATGATTAAAGATGATGGGACAGTTA
TTCATTTCAACAATCCCAAAGTCCAAGCTTCCCTTTCTGCTAATACCTTTGCAATTACTGGTCNTGC
ANAANCCAANCCANTCACAGAAATGCTTCTGGAATNTTAAGTCAGCTTGGTGTCTGCAGTTAACA
AGCCTTAGGAAGTTACTGAACAGTCCCCGGCAAGTCTTGACAGTAAACACCAAACCGAAGACA
TTGTTGAGGGAAGATGATGATGTCCAAATCTTGTANAAAATTTTGNAGCATCAAAGAATGAA
NCTACTAAAAGTTGGTTTTGGANCTGCATGGCTANTTAACAATCANNTTGGGTNCAAGTTTCAGAC
NTGANACTCCCTGTCTATCAGGATNAAAANTTTTGGTTTAATATGCTGGTGTGANATTTTCGC

SEQ ID NO: 1771 ACGCGGGGCCTTTTCTCTCTTCAGCGTGGGGCGCCACAATTTGCGCGCTC
TCTTTCTGCTGCTCCCCAGCTCTCGGATACAGCCGACACCATGGGTTTTCGGAGACCTGAAAAGCCC
TGCCGGCCTCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCGAGGGGTATGTGCCAT
CACAAGCAGATGTGGCAGTNTTGAAGCCGTGTCCAGCCACCGCCTGCCGACTTGTGTCTATGCCT
TACGTTGGTATAATCACNTCAANTCTTACNAAAAGGAAAAGCCACCTGCCAGGAGTGAATAAAGC

TTTGGCAAATATGGTCCTGCCNANGTGGAAAACACTACAGGAAGNGAANCTCAGATATAAAAATG
ATGATACTT

SEQ ID NO: 1772 GGCACCTACGATGGTCACATTCATATTGGGCATTGGATCTATTTAAGCCTAGA
AGTATAACAGATAATCAGTTCCTTAAGTGTAATATGTTCTTAAATGTTTGGCCTTTTTATCTGTTA
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CAAATCTGTTTTTCTTTTGTCTGNGGAAGATGTCTTTATATAATATTGAGACTTCCCTTGCAAATGA
GAGACGGGACTCTGGTCAGGTATAGTGTGTAGGCCTAGCCCCATATATTAGGAACTCATAACTC
NGAAATCCAAGGATTAACATTTTATGTCTCCTTCATTCATGCAAGTCATGCTTTCATTCTACATGT
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AGGNAAATGCTTTAGCAACTTTGGAATCAGCACCTTTAANTTTGATTGNCTTACCCTATCAANAG
AACCAATNAACCNTTCTTTTTTCTNTGCANGGAAAAGAAAANNGGAAACATTCTNTTTNTTTTNC
AAA

SEQ ID NO: 1773 ACTACCAGCTTTCACATCAAATTTGGAACGTGGAGGTGTGGAAAAGCTATTG
GATTTAAGTTGGACAGAGTCATGTAAACCAACAGCAACTGAACCACTATTTAAGAAAGTCAGTCC
ATGGGAAACATCTACTTCTAGCTTTTTTCCATATTTTGGCTCCGGCCGTTGGTTCTATCTTCCCCG
ACTGCCCGCGCTCACAGTCTGCTTCTTGTCTTTTGCCTCATATCGTCAGGTAGCTAGTTTCGGTT
CAGCTGCTCCTCCCAGACAGTTTGATGCATCTCAATTCAGCCAAGGCCCTGTGCCTGGCACTTGTG
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ATTGTGGCATTGTTTTTTCAGGGAGCTCATTAAGCTCTGCACAGGCTGNTNCACTGCAACATCCTG
GAGGCTTTACTACCAGCCCTTNTGGTGGCACCTTTCCCTGAGCTTGGATTCTCCCCCANCNTTTAAT
TTNTTCTNNTTCTACANACCCCTGTTCCNTTAAGAANGGTTTTTGGGNGCT

SEQ ID NO: 1774 ACCCCTTTATTCACTGTTGGAACAAACTCATCTCAAAGTAGAAGATGTGAGTG
CAGTTGAGATTGTTGGAGGCGCTACACGAATTCAGCTGTGAAGGAAAGAATTGCCAAATTCTTT
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TGCAATACTTTCCCCGGCATTAAAGTTAGAGAATTTCCGTCACAGATGCAGNTCCTTTTCCAAT
ATCTCTGATCTGGAACCATGATTCAGAAGATACTGAAGGTGTTTCATGAAGCTTTAGTCGAAACCA
TGCTGCTCCTTTCTCAAAGTTCTCACCTTTCTGAGAAGGGGGCCTTTTGGAGCTAGAAGCTTTCTAT
TCTGATCCCCAAGGAGTTCCATATCCAGAAGCAAAAAATTAGCCGCTTTGTAGTTCCANAAATGTT
TCTGCACAGNAAAGATGGAGAAAAAATTTANAGTNAAAGTCAAAGTGCGGAAGTCAACNCCCA
TNGCATTTTACCNATCTCTNCGGCATCTATNGGTGGGANGAAAGTCCCAACTGAAGGANA

SEQ ID NO: 1775 ACCCATCCAATGAGTCCCCNGAGCCTCCANAAGCTGTTGTCTCCTCTCTGGGG
ACAGCAGCTCCTGCCTTTGGAGGCCAAAGCCCCAGATCTCTCCAGCCCCAGAGCTGAAAACACCA
AGTGCCTATTTGAGGGTGTCTGTCTGGAGACTTAGAGTTTGTTCATGTGTGTGTGTGTGTTGGTTAA
TGTGGGTTTATGGGNTTCTTTCTTTTTTTCTTTNTTTTAGTCTACATTAGGGGGAAGTGAGCGCC
TCCCATGTGCANACAGNGTGTCTTTATAGATTTTCTAAGGCTTTCCCAATGATGTGGGTAATTT
CTGATGTTTCTGAAAGTTCCAGGAANTNACACCCGTTCCCCATTCTNACTTGCCCCACCCAGTTG
TGACAACCTCCGGNGTGGATATACCCCNCGGGGAGTCAATNGGNTTNTTCCCNACCCNANTT
TTNTATAAANTGNANGGCCTAANAATAACNCTTTTCTGGTTGNAAAAACNTCAGCTNAANTTNCTG
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SEQ ID NO: 1776 CANGTTTCCCAGCCACAGTCATTGCTTCATTCTTGTCTGATCAGATGGTAG
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AAATCTCCTTGTTTTAGTAACTCTTGTGGATTACTGCAGTTAANACAGAACTTCATATGATTGC
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ACCCTTTAGCAANACCTCGTCATCAACTCCCAAGATAGAAATNGGTATNTNGGTAGGGTTCAAN
GGCTNTCCACCAANGGNTNGGCTGGGAATNNATANNACCCANGTTTTTACTGGGTACCTTGGCCG
CNAACCNCCCCTTAANGGGCGAATTTCAACNACACTGGCGGGCCGTTANTAGNGG

SEQ ID NO: 1777 ACGCGGGGACGGCAGGCGTCCGCGTCGCTAGCTAGTCGTTCTGAAGCGGGCGG
CCAGAGAAGAGTCAAGGGCAGGACATCGGGTAGCCATGCCTTTCTTGACATCCAGAAAAGGTT
CGGCTTAACATAGATCGATTGGTTGACAATCCAGAGTGGTGAACAGCCCTACAAGATGGCTGGTC
GATGCCATGCTTTTTGAAAAAGAATGGATAGAATGTGCACATGGAATCGGTTATACTCGGGCAGAG
AAAGAGTGCAAGATAGAATATGATGATTTCGTAGAGTGTGTGCTTCGGCAGAAAACGATGAGACG
TGCAGGTACCTGCCCCGGCGGCCGCTCGAAAGGGCG

SEQ ID NO: 1778 ACCACTGAAACCCTGACCCAGAAAAGTGGCTTGCTTGACACCCAGCTGCCT
TTGTTTCTGCATTAAACCAATATTGATCACACATATGACACAGGCTAGTCCTATAAAAAGTAATGAC
TTCATAGAAATGGCATTATAATTTTTAAGTTGATACTCTACAGGTAGCTATTGATATAATTAGTTTT
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CGTATTTACAATGACTTAATATAAGACTGACTTTTATCCTGCTTCATAACTTGTATGGAGAACTCAC
CAAGAAAGAATTCAATACTGTGAAATATGCAGCAAGAAGATTGGTCTTTACCTAGGCTGTGTTTCC
TAAGCTCTTGAGTTTTAAACACCAGTNNATTTGTATTTAAAGAAAAAATGGGGCCTTAGCTT
CTGGCTTTTAATTTTTGCCANCCTAAGGGACATTAAANACNTAAATTAAACNAACAAATAACCAA
ATAGGCCCTCTGNCTTTCAAGCAATCATTNTTGTAAAAAGAAAAANNNTNTTTNAACCCCTTA

SEQ ID NO: 1779 ACTATTTTCATGGTCCAAACCTGTTGCCATAGTTGGTAAGGCTTTCCTTTAAGT
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ATATTAATAAATCTGTAGTGTGTTTGTGTTTATATGTTTCAGAACCCAGAGTAGACTGGATTGAAAGAT
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CATTCTGTGCACAAAAGTGCCACTAAAACAGCCTCAGGAGAATAAATGACTTGCTTTTCTAAATCT
CAGGTTTATCTGGGCTCTATCATATAAGACAGGCTTCTGATAGTTTGCAACTGTAAGCAGAAAACCT
ACATATAGTTAAAAATCCTGGTCTTTCTTGGTAAACAGATTTTAAATGTCTGATATAAACATGCCA
CAGGAGAAATCGGGGATTGTTGGGTTTCTNCTGAATAGCATATATTTGATGCATCGGATAGGTCATTA
TGATTTTTTACCATTTGACTTACATAATGAAAACCAANTTCATTTTTAA

SEQ ID NO: 1780 ACGCGGGGGAGGCGGCACTGGTCTCGACGTGGGGCGGCCAGCGATGAAGCC
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AACCTTCTGGATCTCTACCAGCAATGTGGAATTATNACCCATCATCATCCAATCGCAGATGGAGGG
ACTCCTGACATAGCCAGCTGCTGTGAAATAATGGAAGAGCTTACAACCTGCCTTAAAAATTACCC
GAAAAACCTTAATACACTGCTATGGAGGACTTGGGGAGATCTTGTCTTGNAGCTGCTTGTCTNCTA
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SEQ ID NO: 1781 ACTTTTTTTCTTAATTTCACTGACTTCAGAGACGATTGCAGACTTGCAGTTTAA
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GTGATTTTCAGAGCATAATGCTATGTTTTTTTGTCTTTTACTATGTTTTTTCGGATTTTTAAGTCCGTA
AGTGCATACAGTTTTCTCTAATTTTTAAACCCTTTCTCCTCCCATTTTGACATTTGCAGTTGGAGA
ACACTTGAGTTGTGAAGGTTTTGGGCATCCACCCAGAAAGTGGGAATTTGATTTTATCCTTCCGA
ACTGGAAGAACATTTTTATGAAGAATTTTGTCTANGAGAATATAACAGTGTTACCCAAGGNTGTG
TCTTTAANGGTGGNTCAATTTTCTCTGACCTTTTGTACTCAAAAGNAAAAGTACCCTGCCNGGCG
GGCCGCTNTAAAANGGGCGAAATTTCCACCACACTGGGCGGGGCCG

SEQ ID NO: 1782 ACGTCTGCATCGATTATCTTACGTGGGGCAAATGATTTTCATGTGTGATGAGAT
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CTCGGGAACAGCTTGCAGATTGCAGAGTTTGCAAGATCACTTCTTGTATTCCCAATACACTAGCAG
TTAATGCTGCCAGGACTCCACAGATCTGGTTGCAAAATTAAGAGCTTTTCATAATGAGGCCCAGG
TTAACCCAGAACGTAAAAATCTAAATGGATTGGTCTTGATTTGAGCAATGGTAAACCTCGAGAC
AACAACAAGCAGGGGTGTTTGAACCAACCATAGTTAAAGTTAAGAGTTTGAATTTGCAACAGA
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SEQ ID NO: 1783 ACTCTGGATCCCAAGGTGACTGGTTGTTAATCGTGTGCATAGAACGAGCCA
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GCTATTGAAGGGGGGACCCAGCTTTCTAGGGCCCTAGAACTCTGACAGGTTGCCTTATTCCAGCG
ACCCCACTTATTGCTGCAGTAAAGAGGCAGCTCCGAGTGAGGACCATCTACGAGAGCAAAATGA
TTGAATACNATCCTGAAAGAAATANGAATCTTTTGGGTGAGTTGTGAGGCTNGCACCTACATTC
GGACATTATGNGTGCACCNTTGGTTTTGNTATTGGGAGTNGGNGGTANATGCATGGANCTTCNG
NTGGTTTTTCTTNGAANCATTAGTGAAAANGGGCCCAACATGGT

SEQ ID NO: 1784 ACCTCATAGCCCTGTGTCATTTAGTGTTCAGCACTTTTGGGAACATCAGTTGG
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CTTGGTAGGCTGAAGCATGAGAATTGCTTAAACCTGGGAGGCAGAGGTTGCAGTAAGCCAAGATC
ATGCCACTGCACTCCAGCCTGGGCAACAGAGTAAGACTCTGTCTTAATAAAATAAATAAGAAAATA
AAACGGAACTGCAGTGCTAACAGTAATTTATACATTTTTTAAATGTTCTGAGTATGTTTTGACTGGG
CTAGTGTAACAATATACTACCCTGAAAGTGCAGTTTTGATTGNTGGTGGTGTCTTTGGGTCANGA
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SEQ ID NO: 1785 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGTCAACAACTTCTATTTTTATTGACA
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AAGGTTTAATANCATAAGCCACCAGTNTCANAAAAACATACAGTCCCACTATCACTTTTANAGCTA
GAACTTATCAAAAANAATTAGATCCTGCATTGATCTGCTAANATAGAGGTTAAAAATGGTTTAAGC
CATTTAAAGCCATTTTTATAATCTGTCTGATAACTCTGGGCAATTAANAAAAAGGAAAATTCCAAAA
CGTAGCCCTCTATATCATGTGGAATGTGAGAGAATGCCAACTTATGACCAAGATANGTAAAAATA
AAAGTTTAAATCTATGAGNTGGAGCTGNTGNATCACTGCNAAATGTCAACCAACAGNGCTTATCA
AAGAGATTNTCANCTTGAGCGATGGTTACTTAACTTGNNGCGATGT

SEQ ID NO: 1786 ACTATGAACACCAGAACAGAAGAGATTTTTTACTATTATGACACAAACACAG
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GTCTTCTCCACTTACTTAGATATCTGCAGGGGTGTCTAAAAGTGTGTTTCATTTTGCAGCAATGTTTA
GGTGCATAGTTCTACCACACTAGAGATCTAGGACATTTGTCTTGATTGGTGAAGTTCTCTTGGGAA
TCATCTGCCTCTTCAGGCGCATTTTGCAATAAAGTCTGTCTAGGGTGGGATTGTGAGAGGTCTAGG
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AGGAACTTAAACTCAGTATGGCGTCTAAGGATTCTTTGGACCT

SEQ ID NO: 1787 ACGCGGGATAACCATGCACACTACTATAACCACCCTAACCCCTAACTTCCCTA
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AAGTTATTATCTCGAACTGACACTGAGCCACAACCCAAAACAACCCAGCTCTCCCTAAGCTTCAAAC
TAGACTACTTCTCCATAATATTCATCCCTGTAGCATTGTTCTGTTACATGGTCCATCATAGAATTCT
ACTGTGATATATAAACTCAGACCCAAACATTAATCAGTTCTTCAAATATCTACTCATCTTCTCTAATT
ACCATACTAATCTTTAGTTACCGCTAACCAACCTATTCCAAGTTCANTCGGCTGAAAGGGCGGTA
NGGAATTATATCCTTCTTGCTCATCAGTTGATGATACCGCCNGAGCAGATGCCAANACAAGCAA
GCCNNTCAAGGCCAATCCTAATACCAACCCGNGATCG

SEQ ID NO: 1788 ACAAAGAAGCAGCTCAGGAGGCTGTAAACTGTATAATAATCATGAAATTC
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TCATTTTATACCACCAACCGGATGACAAGTAAAAAACAGAGGCTTTTGTCTTTCTTGAATATGAAG
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SEQ ID NO: 1789 ACCAAAACAGACATATAGACCAATGGAACAGAACAGAGCCCTCAGAAATAA
CACCGCACATCTACAACCATCTGGTCTTCGACAAACCTGACAAAAACAAGCAATGGAGAAAGGAT
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ACACCATGGAATACTAAGCAGCCATAAAAAAGGATGAGTTCATGTCTTTGCAGGGACATGGATG
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ACTCATAAGTGGGAGTTTAACAATGAGAACACATGGACACAGGGAGGGGAACA

SEQ ID NO: 1790 ACTTGCCTCATAGCTGGTGAAGGATTCTTCTGAACCCCCACCCTACCCCTAA
AGGTATCTGTGGTATIGGCAGGATAGGGAATATGCATTACAGAAATGCAGGATTTGACTCTGGGC
ATGAAAGATGGCAGCAGCCCTAGGGTGACCGTGAACCTATAGACCTCGCAGTCTTTTCGGTGAAAG
AAGAGACAAGTTGACCCTCTGCCATTTCTTATGGACCTCACCCATCATGCCAGCAGGGTCATAG
GACCTTGGCCTTGTTCCAAATCATCTGGGACATGACCCACTCCCCACTGTCACTGTGTTGAAAACA
GAGACTTGTGTGTGGCCCCAACCCATAAGGAAACCAGGCTTTAGGCCAGGGGAGCAGTGG

AGGTAAGGGCTCCACCCCATCTTAAGCTCTGTCTTCCGNGGCACAAATTCGAAGTTCTTTGACGTT
AGTAATTGTTAAAGGAATGGCAAACCTGTTTTGTTTTGAANGATCTTCTACAGTCTGGTCNTACC
CATGTTTCCTTAGCAACCCTGAGATGATTTTCTTCCATTTTACCAAAAGC

SEQ ID NO: 1791 ACTATTAAGAAAAAGAAGATTGATTCTTAACCTACTGAATTGTGCAGATACA
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AGTAGATCCCATCACCTTACCCATTGTTTTGCTATGTTAGACCCTAAAACAGGCTGCCGACAGATC
GGACAAGTGCAATTCTCTGAGAGCCATCCGGTCAATACAATTGAATGTGAAATTCATGCATGCAA
GGGTAATTGCCTGAGCTTGTTCGAAGTTACCATAGTCACTAAATACCAAAACACCTACAGATTTTA
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SEQ ID NO: 1792 ACAAATTTGCCACCAAAAACGATGTTGATGTCCAAATTGACCAGGAGTCCTA
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ACACCCTGGAAAGCCGGCTGGATCTCATAGCCCAGCAGATGATGCCAGAAGTCCGGGGAGCCTTG
TTTGGTGCAAATGCCAACAGGAAGTTTTTGGACTAAGCCTTCAGGAGGTGGAGCTCGTCGTCAGCT
CTCCTGCTGTGATGTGGAAGCTTCTGATATTTGAAGAAACACGAATGTCTCTGTAGCTTCCTCTTCA
CTGCCCCAGTATTGCTCTGTATTTATCAGCGATGCCCTCTGTCACTCATGCCTTGCCTAATTGTTT
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SEQ ID NO: 1793 ACCCACAGAGACTGAGAGTTGGTGCTGGTGGTGTGGTGGCAGATGATATTA
CCTGAAGAAGGGACGAATGGGTGCTGGGCAGGACAAAGCATCAGCTGTCCAGTTCAGGCCTCTCC
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CTCCTGGTCTTGGGAGTTGCCTTCTGAGGATACTCCACTGGGGGTACC

SEQ ID NO: 1794 ACTTGAGTCAAAGACGACATTTAGATTCTTCAGCTTTGAAGCATTAGTAACA
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ACAGATGGCTTTTGCAGCAGACATGGCACTGGATAGTTTTCGAGCCTTGATGACAGCAGCGCCAC
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TCCCCAGATAATGACATTCTTTACATCATTAGCAGTCACACCAAGTT

SEQ ID NO: 1795 ACATTTCAATAGCACGTTTCATCCTCCTCATTAAACTCGTCTTCATGATCCTCCA
GCTCTTCCAAAGTCATATCTTCATATGTTTTACCACTGACTGCTGGAGGATGCGCTGCTCCTCTTC
TGCCCTCCTCTTCCAATTCTTTCAGACTTTCTTGGGGGGTAAGATACCTTTTTCGNAAGATGTCA
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SEQ ID NO: 1796 ACTTTTTTTTTTTTTTTTTTTTTTTTGGCTGAAAACCTTTTATTGCTCTTTTGGAT
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GAAACCTGGCCTACCCAGCACCATANAAAGTCCAGGCCGTANATACCAATGCTTGGGTTCATATT
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TGTGCAGNGGACAAGCAATCTTTTCATTTCTCCGGATGCCAAAGGATCTGACAGGTGTATCTAGCT
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NCACTCTCCCCAACACAGATNTTGANACANAAGTTTGGCGGA

SEQ ID NO: 1797 ACGCGGGAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCC
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GCTCCTCAGTTCCAGCCTGACCCCTCCCATCTTTGGCCTCTGACCCTTTTCCACAGGGGACCTA
CCCCTATTGCGGTCTCCAGCTCATCTTTCACCTCACCCCTCTCCTCCTTGGCTTAATTATGCT
AATGTTGGAGGAGAATGAATAAATAAAGTGAATCTTTGCAAAAAAAAAA

SEQ ID NO: 1798 ACAAAAGGAATGTTTCCTTTATAAATCACAGAAGAAAATGACAATATCTGTT
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TTAATACTTTAATTTTGTCTCCAACAAGGGCTTTATGTTGCTGGTAAGAGAATTTATTTACTAAATGC
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CATAATGCAGAGTTTAACTTGATTCTTCAACAGAGTCCAGATTTAAATGTCTACTTAGTTAATTA
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SEQ ID NO: 1799 ACGGATCTTACTTCCTGGCTCCACGCGTCCTGCTGGTGATCCTGCCGGGGGA
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SEQ ID NO: 1800 ACTTCACCCAGGCACTCCAGGCCGGGACCGTGTGGGTAAACACCTACAACAT
CGTCACCTGCCACACGCCATTTGGAGGGTTAAGGAATCTGGAACGGGAGGAGCTGGGTGAGG
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CAAGCTGTTTAAAGCCAAGAACACCCCTTTCTTTGTTCCAAATTAACCTTTAGAAGAAACCCCA
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SEQ ID NO: 1801 ACTTTTATATATACTATCTATGAAGAATTCATAAAGCATGAATCACCTTATA
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TCAAAACATTGCTCAGTATTAAGTCTCAGTAGACAAATAATAGGACCACATGAGAACTGTTCCG
CAGGTGGCTGAGGAAACCTTAACCTCCAAAGGCTCAAAGTGGTCTCCAGAGACTGTTACACTCC
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SEQ ID NO: 1802 ACCCATTTGGATCTCTAGCATCAAGAACTTGAACCTACAACATCTGATGAATCTA
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GTTTAATTATTTTACCCACGACTGGTCTGCTCCTTTTGCC

SEQ ID NO: 1803 ACGCGGGATTGCAGCATTATTTTCAAGTTCAAATGAACCTATATGCCTGGCACC
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ATTCTAGAAGAACAAAGGGTGAACAGCAGACCAAGCTGGAAGCAGAGAAGTTGAAAGTGCAGG
CCCTGAAGGACCGAGGTCTTTCCATTCTCTGAGCAGATACTCTTGATGAGTACC

SEQ ID NO: 1804 ACTCAGTCTGAAAAGCTAACAATACTGCATCTAACCCTCAATGGACCTTA
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AGAGCAGAGACCCAGCAAACAGCTGTAACTGGAAACACAGATAAAACCGATAGGTATGATTGAT
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 TCAACCAACAGGTCCTGAACCAGGGCTTTCTGGTCTGAAATAGAAAATCTGCTTGAAAGACGTA
 CCTCGGCCGCGACCACGCTAAGGGCG

SEQ ID NO: 1805 ACAGAGTCGCATCCATTCTTTTTGAACAACATGTAGCATGTCTGCAACAGTGG
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 GCACTATTCTTGGCCCCCTTATAATTGTGGTGGTTATATNATNCACTAAGTCCTTACGACTTATAGAT
 TTGATATTTTCAGTTGGNNCCAAAATTGGTCCGTCCAAGTGCAGTATTTTGA

SEQ ID NO: 1806 ACCTGTTGTACGCGTCCTGTTTGCCCTGAGCCGCCTGGCTGTAGAGAAGGGC
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 AGGACAGCAATGTATGGCACGACATCTCAGACTTCTCATCTATAACAAGAGCCGTCCCTCCAATT
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 ACTGCCTTCTCAAGATCATAGCCCTCANACTCCAAGTGGTGTATCCCAGGGTTCCGTTTGCTGAA
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SEQ ID NO: 1807 ACGCGGGGCTTCAAGCAACAGCGACGCAAGATGGCAGCCACCACGGGCTCG
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SEQ ID NO: 1808 ACTTTTTTTTTTTTTTTTTTTTTTTTNGGGNGGCCACCACATCTTTATTGCATACT
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SEQ ID NO: 1809 ACCAAGTCCAGGTATAACATTCCTATTGGAAGCCATACTTATATTTTCTTGTA
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 GCTGATCCATCATGATGTAAAAGTTCACAATATGGGTCAAATGTAACAGTGCAGAATTGAATATG
 GAGGCATGCATAACCCCTCCTCTTAAAAAATGGCAGGGGNTGNA

SEQ ID NO: 1810 AAACATGATTTTGCCCTAAAGAACAGCTGAACTGTTGAGAGAAGCAAGGGCT
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 GTATCCTTGAAGGTTCCGTAAATTTTGCAAGTGAACAAGTAAAAAAGGGCTGGTGTAGGTACC

SEQ ID NO: 1811 ACTTTCCTTCATCGAATGATTATTTGCCTGGAGGAAGAAGTTCTTCCGTTTCAT
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CTACACCTTTAAACAAACCTTTGCCTGGCNGATCACAAACAGTTTGGCTTTTTTTGA

SEQ ID NO: 1812 ACACAGTTTCAGAAAAAACNAGGAATGAATACTATTGATGNCTGGTGGCTTT
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SEQ ID NO: 1813 ACCAACAGAAAGCAGGCCAGGCTCCCACTCTCATCATCTATGGTGCCTCCAC
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GCCATCTGATGAGCAGNTGAAATCTGGACTGCCCTCTGTTGTGTGCCTGCTGAATAACTTNATCCCA
GGGAGGCCAAAGTNCCTTGCCGGGCGGNCNTTNAAGGGTG

SEQ ID NO: 1814 ACGCGGGGGTTTATCGTGTGAGCACACCATATATTTACAGTAGGAATAGACG
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SEQ ID NO: 1815 ACAGGCCCTTTGATGGCTTGGGTTACAGACAACCTCATAGCTGGTGCACCAC
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SEQ ID NO: 1816 ACTTCAAGTTAAAGTGAATAACCACTTAAAAAATGTCCATGATGGAATATTC
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SEQ ID NO: 1817 ACTTNTTTTTTTTTTTTTTTTTTTTTTCTGGACAGGAAGTANAATTTATTGGTGA
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SEQ ID NO: 1818 ACTTTTTTTTTTTTTTTTTTTTTTTTTTCCGGAATTTCTTTATTTTTTACAAA
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SEQ ID NO: 1819 ACGCGGGGACTCTGCGCTTCACCATGGCTTTTCATTGCCAAGTCCTTCTATGAC
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SEQ ID NO: 1820 ACTTTTTTTTTTTTTTTTTTTTTTTTTTCTATGNAACTGTCCCTCATCCTTCACCA
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SEQ ID NO: 1821 CGATCGAAGGGACTATGTCTTCATTGAATTTTGTGTTGAAGACAGTAAGGAT
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SEQ ID NO: 1822 ACCTTTGAATCTCTGTTACCTGAGGAAACAGCATTCTCAGCTTCTTGGTGCTC
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SEQ ID NO: 1823 ACAGTTATGCTCAGATGAACACTGGACCCATGTGACAGGGTCAAGCAACTAG
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AGCTGATCCTATATTGGTATGAGGAATGGCTTATTTTCTGATGACCACATGTGGGACTATTTNAAC
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SEQ ID NO: 1824 ACTTTATGTTCTTTGCAACTGTTTCCATTATGAGAACGCTGTGCTATTTACAAG
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SEQ ID NO: 1825 ACTGTTTACCAAACCTGAAGGTGCAGTGCTTGCAATATTTGTCTTGGGTGTCA
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CCATGCGAATGATGCTCTGTAGTCTTTGTCTTGACTGAGAGAAGTTTGCATANGAAGGCACCTGC
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SEQ ID NO: 1826 ACACAAAGGATGTATGAAATGTGGGTTTTGTTGCTGAGGATAACAGGGTATT
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SEQ ID NO: 1827 ACCTGTCCTTTCTTTTTCTTTTTTAAATCATAGTTTGTTTACCTGAAAGTTG
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SEQ ID NO: 1828 ACCCGGCTCTGCATCGCGTCGCCATGATGGGCCATCGTCCAGTGCTCGTGCTC
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SEQ ID NO: 1829 ACACCTTTGTTACAGTTACATATATGAATAGTTAGCAGAGGAGAAACTCCTCC
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SEQ ID NO: 1830 ACTTTATTITTTTGTITGTTITTTTTCCTTTTGGATCTTGATTGATAACTGCCAT
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SEQ ID NO: 1831 ACGTGGGTGAGGGGATGGAGGAAGGCGAGTTTTCAGAGGCCCGTGAGGACA
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SEQ ID NO: 1833 ACTGCCCGACTTCCTCATCTTACTGGGTCCAGCATAAAGCAGATGTCCACTGT
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SEQ ID NO: 1834 ACTATGCTATGTTGGCTAAAACCTGGTGTCCATCACTACAGTGGCAATAATATT
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SEQ ID NO: 1835 ACTCAATCTGAAAGATGTAGAAGAAGGAGATGAGAAATTTGAATGACACCC
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SEQ ID NO: 1837 ACTGTGTGGCGCCTTATTCTAGGCACTTGTTGGGCAGAATGTCACACCTGCCG
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SEQ ID NO: 1838 ACTTTTTTTTTTTTTTTTTTTTTTTTANAACCTNTGCAATTATTAGTTTATTA
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SEQ ID NO: 1839 ACAGAAGTTTTTCATCTATGAACATGGCCTCATCATCACCTGCAGCCTTGGCCT
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SEQ ID NO: 1840 GCCCTTTACATCGCTGAGAGCCGCTGTCTTGGTTAGATGGCTCTGGATTAGG
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SEQ ID NO: 1841 ACGTGCACCTCCTGTTTCAAAAACGCAAGCAGAAAATAGGTCTGGACAAGGG
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SEQ ID NO: 1842 ACGCGGGGCTTTTCTCTCTTCAGCGTGGGGCGCCACAATTTGCGCGCTCT
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ACAAGCAGATGTGGCAGTATTTGAAGCCGTGTCCAGCCACCGCTGCCGACTTGTGTATGCCCT
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SEQ ID NO: 1843 ACTACCAGGTATTGGTTTCGTTTACAATTATTGATGGAAATCAGGTCAGCGGA
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SEQ ID NO: 1844 ACATCCTACCCCTCTCCCATTTCCAGAGCCACCTAAGAGAAGTAAAAAACTA
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SEQ ID NO: 1845 ACITTTTTTTTTTTTTTTTTTTTTTAATTTTGANATGGAATTTTGCTCTTGTCAC
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SEQ ID NO: 1846 GCGTGNTTTGTTGCCGAGGTACAGGTAGAAGCTTGATTGCTAGGCCCAGGCC
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SEQ ID NO: 1848 GCGNGNTTGTGTTTCGAGGNACCTCGTTTTCAGGTTTCATCCATCTCCAGTGGA
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SEQ ID NO: 1851 ACCGCGGGGGCGTGGCGGGCGGTGGCGGCTGCGGCAACAGCGGGGCCGATGT
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SEQ ID NO: 1854 ACTCCAGCAAGAGGAAATATGACACTCCCAAAACGAAGAAGAAGTATTGG
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GCCCTGCTCTCAGCCATAGTGAAGGACCNCCCTAGGAGTCTGCGAGAGCCTCCTTGGTTCCATCGT
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TGANGTGTGTGGGTTTATTGCTGGCAACNTGAATTCTCTCAGGGGTCTATGAGGGGCATTTTGA
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SEQ ID NO: 1855 ACAAAAATTTGAAAGTGTGACAATGACAATTATGAAATCCTGTGACTGAAAG
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ACTAATGCAAACCAAGTGCTACCCAGAAGCACCAACACGTGTGTTCTCCATTCCACCAATCACAGA
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CTTCTTACTCACGATGAACCAGCACGAATAAACCCAGCAAAAAGAGAACTGCATACTTAAATTTA
GGATAGTCATTTCATGAGGATCGTCACAATTCGAATATAAGGAACAAATCCCCTGGCTCTCCCCACA
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SEQ ID NO: 1856 ACAGTTGGAGTCTGTGTGTTTTCTTGAATGTTGAGACAGCTTCACCTTGAAC
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SEQ ID NO: 1857 ACAAGTTCGGCTTTGAGCTTCTCAGGGGCCTCTGGGAACATCCTTCAAAGG
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CAGACCAAGGTGCTGACTCAGAAAGTTGTATCAAGTCAGAGCCAATCATATTATNTCANGGACAT
GCCCATCATNGCGTGGCAAGAGCCTTCNGGTTCAAAAAGATCAGGCCTTTTATCCTGGGCTGCAAC
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SEQ ID NO: 1858 ACGCGGGACACTTGGCCAACCATATTTTATTTTATATTTTATTTTATTTGA
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CCNCCGCGT

SEQ ID NO: 1860 ACTGTTTTTCAGTATTTGGGGAGGGTGGTTTGAGCAGCATTTATTGACAATTT
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N

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SEQ ID NO: 1862 ACATATTTAATTATGTAAAAATATTAACACCACCATTACAAAACCTTCTAAAA
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SEQ ID NO: 1863 ACGCGGGAGAGGTGGTGGGGACCAGGGCTATGGGAGTGGCAGGTATTATGA
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SEQ ID NO: 1864 ACAAGTTCACACTCGCCCCACGGGCAAGTATATCATAGAGGGAGGAAGCCAC
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SEQ ID NO: 1865 ACCCAAATATAAAATACTTGTTTAAATGTAGAGTTTCATATCCTTTAAACCTC
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SEQ ID NO: 1866 ACACCTTGAAGGCGAGGTTAATTAAATCCTGTTGTGGAGTTTGAGGGCCGGA
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SEQ ID NO: 1867 ACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAACACCACCAGTGGTCTTA
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SEQ ID NO: 1868 ACGCGGGTATTGAAGGTGGAGTAGCAACCGGGCATTATATTATCTCTTGAA
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SEQ ID NO: 1869 ACCGGGGGAGGCAAGATGGCGGCAACCAAGAGGAAACGGCGTGGAGGCTTT
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SEQ ID NO: 1870 ACGCGGGGCTAAGTGTTCGGGTGGATTCCCAGGGACTGTCCGAGGTGTGGA
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GGGGACCTGCACAGGGAAGTATGGCTTTGTAATTGCTGTCACCACCATTGACAATATTGGTGTCTGG
TGTGATCCANCCAGGCCGAGGCTTTGTCTTTATCCAGTTAAGTACCTCGGCCGCGACACGCTAA
GGCG

SEQ ID NO: 1871 AACAGTTGGAGTCTGTGTGTTTTCTTGAATGTTTGAGACAGCTTCACCTTGAA
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SEQ ID NO: 1872 ACTTTTTTTTTTTTTTTTTTTTTTGGTAGTTCTCACAGTTTAATAGAAAGAATGCA
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SEQ ID NO: 1873 ACGCGGGATCCAACCCTGAAGATATTTAGAGATGGTGAAGAAGCAGGTGCTT
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SEQ ID NO: 1874 ACGCGGGGACCGCGGGGCGGACGGGAGCGAGTATGTCCGCTCTGACTCGGCT
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SEQ ID NO: 1875 ACGCGGGAGGAACTGCTCAGTTAGGACCCAGACGGAACCATGGAAGCCCCA
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ATAGACACTAGGGCCACCGGCATCCCAGCCAGGTTCACTGGCAGTGGGTCTGGGACAGAGTTTAC
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GTNTTATCTTCCGCCATCTGATGAGCCAATTGAAAATNTGGAACCTTGNCTCTGTTGTGGGCCTGC
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SEQ ID NO: 1876 ACGGATGTGGCAGCGAGAGGACTAGACATTCCTGAAGTCGACTGGATTGTTT
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TACGAGCCTATGATTCCCATCTCTGAAACAGATCTTTAATGTTAATAACCTAAATTTGCCTCAGGT
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SEQ ID NO: 1877 ACGTTGAAGGACTTTGCTGGGTTCTGAGTGTTTGTCCCTCACATAGGATTCCA
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TGCTACAAATTTCTGAACGTTTGTGCTCACAGAGGATTCCAAGAACACTGTGGCTGGGTTGTGTT
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SEQ ID NO: 1878 ACAGATGGTGATTACAGAAGCCCAGAAGGTTGATACCAGAGCCAAGAACGC
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TCCCATGGCCAGGTTGGTTGTCTTATTGNACCATACTCCTTGCTTCTCTGA

SEQ ID NO: 1879 ACGCGGGGTTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGCGAG
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SEQ ID NO: 1880 ACATCCATAAGCCAATTCTTCACTAATTAACAAGCATCAAAAGTTCCAAGT
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GGTTCACGTGTGCGATTGGCTTTGTATGCTGTGATCTCCAATGAAAACGAGAAATACTTCTCAGG
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SEQ ID NO: 1881 ACTTTGTAGAGATTGACTTCCTAAGCTACTTAAGACAACTTGACCCACTAAGA
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CTAGATTTTCGTATTCTAGTAGTCAATGTATTTTCAGTGAAATGCAAAAATATTCCCGTTATCTTTGA
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SEQ ID NO: 1882 ACTTTTITTTTTTTTTTTTTTTTTTTTTTGGAAAAAGTAGTTAGCATTTAATGAAA
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SEQ ID NO: 1883 ACTTTTTTTTTTTTTTTTTTTTTTGCATTTCTTTTAGAATGTTTGGTCATTAAC
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SEQ ID NO: 1884 ACACAAAGAGGGGGTGGGTGTCGGATGCAGAGTGTGTGGCCTGATGCTCCAC
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SEQ ID NO: 1885 ACACTGTTGGTGTTATATGGGGATGGGGTCTCGGTAATTTTGTATTATTATTA
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SEQ ID NO: 1886 ACGCGGGGGAACACCTGGCGAGTCCTCGGTGTCGGTGGCCGGCAGTCATCTC
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SEQ ID NO: 1943 ACAAACCAAATGTTNGTTACTATAACTTCTGCATCACAATTAAAAATCCAAA
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SEQ ID NO: 1945 ACTTGGCAGGGTCTTGCCACAGACACATTTGGCTCCAGGCTGCAGTTCACAG
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SEQ ID NO: 1946 GGGGCAAGACTGTGGATTTCACGCAGGATAGTAATTATTTGTTAACCGGGGG
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SEQ ID NO: 1948 ACTCAGTATAAATGCAGATGCTTATGACAGCGACATAGAAGGCCCATGCAAC
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SEQ ID NO: 1951 ACTTTNITTTTTTTTTTTTTTTTTTTTNGAGAAATGTAAAACTCAGTTTAATTTCA
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SEQ ID NO: 1952 ACCATCGCACACACTATTGACGTCAATTGGAAAGAAGGAAGACGACTTTGTCT
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SEQ ID NO: 1953 ACTTTTTTTTTTTTTTTTTTTTTTCCACACCTGCCCTTATTGGTCTCTTNTAGCA
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SEQ ID NO: 1958 ACACATACACACCTAAAGAGTCATGGCCTTCTTAAACAGCTTCTTAATCCTT
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SEQ ID NO: 1960 ACATAGTGTGCGGAACCTCAAATCGGCATTTAGATAGATCCAGTGAGTTTAAAC
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SEQ ID NO: 1963 ACTTCTGCTGCTGAAGTAATGCAATGGTCTCAATCTCTGGAAAAACTTCTTG
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SEQ ID NO: 1971 ACTTCTGATAGCTCATCACTTTCTGTGTCAGAACTTTGAAAAGCAAAGACAGG
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SEQ ID NO: 1975 ACAGAACACCCTAGACAATTCAAGGCATCTTAATCTCCATCAAGAACAAAAA
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SEQ ID NO: 1976 ACGCGGGATGTGAGCTCCTGAAAAATCTGGCCTTGTCTGGTTTTAGACAGATT
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SEQ ID NO: 1977 ACAAAAAGCTGCATTGGAGGATAGCAGTGGCAGCTCCGAGTTACAAGAAATT
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SEQ ID NO: 1978 ACTTCATTCCACATTCAATCAAAGCAAGTGCAACCAGCACAGGTGCCCTTCC
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SEQ ID NO: 2005 ACACCTGAAATCCAGGCCAATGAAGTTCGGAAAGTGAAGAAATATGAACAG
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SEQ ID NO: 2006 ACGCGGGGAGGTAACAGCTCTTGACCTGTTTCTTTCGACCTGACGTGCAGC
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SEQ ID NO: 2009 ACGCGGGGTTCCACGGAAACACTGGTGGACAGATTCTAGTGCTGAGAAGAAA
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SEQ ID NO: 2017 CTCAGAACATCACCTACCACTGCAAGAACAGCATTGCATACATGGATGAGGA
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SEQ ID NO: 2021 ACGAGAAAAACGATTTGGAAATTGGCTGAAAGATGCACGTGACTGGACAATT
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SEQ ID NO: 2030 ACTGTGCAGGCAGATTCACAGGGTGGTGGTAAAGCATCCACAATGGCTCTGG
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SEQ ID NO: 2036 ACGCGGGGCTCTTCCTGCTCTCCATCATGGCGCAGGATCAAGGTGAAAAGGA
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SEQ ID NO: 2037 ACCAAAGAACAGATAAAAGGAGGAACAGGAGACGAAAAGAAAGCGAAAGA
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SEQ ID NO: 2038 ACCTGGAGTGATGGATGGCGTTCCTCGGCTAATAACTATCAGGGTGGATTT
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CGGACACTGTTGGGAACCAAACCTCTGCTTGAGCCTCCTTTAGCTCACTCCACAAGTAAATGGATT
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SEQ ID NO: 2039 ACCAAAGAACAGATAAAAGGAGGAACAGGAGACGAAAAGAAAGCGAAAGA
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SEQ ID NO: 2040 CCCTTAGCCGTGGCGCGGCCGAGGTGGACCTTCAGGGGATCAAAGCAAAGTT
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SEQ ID NO: 2041 ACGCGGGCGCTGTGGAAATTGGGTCTTGGGCTGGGTGGCATCTGGCAGTCAT
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TTCTTT

SEQ ID NO: 2042 ACGCGGGACTACTGGAANTGCACAACTGGCCACTGACAAAAATGACCCCC
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SEQ ID NO: 2043 ACGCGGGGAGTCCGCTGGTCCCGAGCACGAGCTGTGAGGGGATTCACCTGTG
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SEQ ID NO: 2044 GCGTGGCGCGGCCGAGGTACCCCTTTCCATAGAAGGGGGAAGCCCTCTTTC
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SEQ ID NO: 2045 ACAGAGTGACATCGGCAGTTGCAGCAGCAGCAGTAGCGGCAGGAGGAGGGC
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SEQ ID NO: 2046 ACGCGGGGGCAGTGAGTTCGACACACCATGCCGACTGTCAGCGTGAAGCGTG
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SEQ ID NO: 2048 GCCGTGGCGCGGCCGAGGTACTTTGGCCTCTCTGGGATAGAAGTTATTACAG
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SEQ ID NO: 2050 ACTGAAAACATGAAAACAGCAAAATCCAAGGTGAACTTTGACCTANATTG
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SEQ ID NO: 2051 ACTGCAAGACCCATCTTCCCTCCAGTTAATACACTCCCAGGATGGGCTGCAG
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SEQ ID NO: 2052 ACCTTCTTTTTCAGAAAGTAAAGCCTGCAGGCCCTACTGTTGAGCAGCAGGGAG
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SEQ ID NO: 2053 ACACATTAAGCATCCCCAGTTCCCCTCGCACACCCCTTTTCCAGCCACTAGT
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SEQ ID NO: 2054 ACTCCAGATGGCGCCAAAGAATAAAATAGGCAGGTCTCTATGATAAAAGAACA
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NTTA

SEQ ID NO: 2055 ACTAAAGATGATGATTNNTTNGTGGNATGCCTGAAGGGGCGNGGCNCCATTCA
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CNCTTTT

SEQ ID NO: 2056 ACTNNTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTAAGGGCCGCAAACTGCTGCAA
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AAN

SEQ ID NO: 2057 ACTGTAATCCAACACTTCTTTGTTAGCACAGCCACCCAGTTCCACACCCCGGG
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SEQ ID NO: 2058 ACAAACATGGGTGAGCAAAGTTCAACTCAGGTAATAAGTGATTAAAAAACA
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SEQ ID NO: 2059 ACCATTTTATTTAGTGTTGTAGGAAATGTTGGGTACTTCTTAAAAACGAAAC
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GANAT

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NAAA

SEQ ID NO: 2061 ACAAGATCTACCCCGGANNTTGGAGGCGCTACGCCAGGACCGACGGGAAGG
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SEQ ID NO: 2062 ACCTGTCTTTTCTTTTTCTTTTTTAAATCATAGTTTGTTTTACCTGAAAGTTG
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N

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SEQ ID NO: 2065 ACTAAGTAAATGTTCTGCTATTATTTTTTAATTATATTTTTTAAACATCTCATT
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SEQ ID NO: 2066 ACGAAGAAAGCATTTCCCAAGCAATGAGTCTCTTAATGGAAAAAATAAAAGA
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A

SEQ ID NO: 2067 ACCAGCTACTGAATACACCGGATCTAGATATGCCAGTTCTACAAATCAGAC
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SEQ ID NO: 2068 ACTGCACGGCAATTGAAGCATAGCTACTACAGAATAACTCACCTTCCAACAA
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SEQ ID NO: 2069 ACTTNTTTTTTTTTTTTTTTTTTTTTTACCATGCAACGAAACCTTTATTAACATT
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SEQ ID NO: 2070 ACAAACCTCCCAATTGCACCATTAAATTATGGGGTCACATCCAGTTGACAATAA
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ACTCCC

SEQ ID NO: 2071 ACTTGTGGGCCAGCTTAAGCAGCTGAGTAGCTGTTTGGCGGTCCAGGGCCTG
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SEQ ID NO: 2072 CACTACAGAGCAGTTGGGGTATGATGGGCATGTTAGCCAGCCAGCAGAACCA
GTCANGCCCATCGGGTAATAACCAAAACCAANGGCAACATGCAGAGGGAGCCAAACCAGGCCTT
CGGTTCTGGAATAACTCTTATAGTGGCTCTAATCTGGTGCAGCAATTGGTTGGGGGATCAGCAT
CCAATGCAGGGTCGGNCAGTNGGTTTTAATGGAGGCTTTGGCTTCAAGCATGGTTTTTAATCTTTN

TGCTGGGGAAATGTAAACAGGGGGGGTTGTGGNT

SEQ ID NO: 2073 ACCCTTCNCTTACCTATGCCCATGTGCCTGCCCTTCCGGCGGGGCAAGGTGT
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NCCACACCTTTNTTTTTTGNAC

SEQ ID NO: 2074 ACTTTTTTTTTTTTTTTTTTTTTTCTGGCCATTCTTGGCACTGTTTCTAAAG
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SEQ ID NO: 2075 ACCCTTCNCTTACCTATGCCCATGTGCCTGCCCTTCCGGCGGGGCAAGGTGT
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NCCAAACCTTTGTTTTTGNCA

SEQ ID NO: 2076 ACCCTCTCCTTGTTCTCTTCAGGAATCAAGGGTCCTGATGCGGCAAAGGATGA
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SEQ ID NO: 2077 ACTTTTTTTTTTTTTTTTTTTTTTNNCTGGGAAAAAATGTTTTATTCCTCTTTG
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SEQ ID NO: 2078 ACACAATGATATAACCAGCTATAAGTTTAAAGCTTAAAGCACTGTGTGAGT
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SEQ ID NO: 2079 ACAAACCACGGATCTTGTGTCAGAAACACATGTTGAGACTCCTCCATTCTTC
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AAGCAGAAGATTGTTGAGCAGATTTAAACCGCTGGNAAC

SEQ ID NO: 2080 ACAAGCACTTAATTAAAGCAGAAGAGCCCAAGAAGAAGAGGGAAAAAGTGG
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TATGATATGACCCTGGCAGANAGTTATGCCAGTNTGGTCACANCCTCTGCNACTATCTNTTCTNT
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SEQ ID NO: 2081 ACGCGGGGGTCTCTGTTTCTGGCCCTTGTCTGCAGAGATGGCTCCCAATGC
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SEQ ID NO: 2082 ACGCGGGGAGAGCGCCGAGGAGCCGGTCTAGGACGCGAGCAGATTGGTTTATC
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SEQ ID NO: 2083 ACGCGGGGAGAGCGCCGAGGAGCCGGTCTAGGACGCGAGCAGATTGGTTTATC
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SEQ ID NO: 2084 ACGCGGGGACGCTCGACCCAGGATTCCCCCGGCTCGCCTGCCCGCCATGGC
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TGAAAAAGAACACCCCTTTTCTTTATGATTCTNGTGATGACCCNTGCTNTGGAGTTGNCCNNTCTA
CCTGCNNAATTTCTTCTGATNTTCCNTTCCANTGGGGGAAATAA

SEQ ID NO: 2085 ACAAACAATGTTTATTTGTTTGTAAGTGCCAGGTTTATATTTAAGTAAACAT
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SEQ ID NO: 2086 ACCGGGGACAGGTGCAGTCCCTCACCTGTGAAGTGGATGCCCTTAAAGGAAC
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SEQ ID NO: 2087 ACTCCACAGAGAGATGCAGACAAAGTAAACAATGAAGGTTGTTTTATAAAGG
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SEQ ID NO: 2088 ACCATTACAGGACATAGGCACGGGCAAGGACTTCATGTCTAAAATACCAAAAG
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SEQ ID NO: 2089 ACTTTTTTTTTTTTTTTTTTTTTTTTTTATCCTCCAAACAGATTATTGAATACAG
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SEQ ID NO: 2090 ACTGGTCCAGGAGTTATCCAGGATAGATTTTACCCACCATGGGACGTCATC
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SEQ ID NO: 2091 ACCCCTTAACCCCTCTCCTTCACCCCTTAGCAGCAAGTCCCACCTTTCTAGGG
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SEQ ID NO: 2092 ACTTTTTTTTTTTTTTTTTTTTTTTTTTGGCCAGAAAAAATAATCCGTTTAATTGA
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SEQ ID NO: 2093 ACGAGGACTGGATGGAAAGGTGATTTGTGGCTCCCGAGTGAGGGTTGAACTA
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SEQ ID NO: 2094 ACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACTTCTCTACATGGCA
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SEQ ID NO: 2095 ACTGGCCTGCTGCTGGCCCGCAGGCTTCTCAATAGGTTTGGCATGGACAAGA
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SEQ ID NO: 2096 ACTCCCTACGGCACTAGTCTACAGGGGGAAGGACGCTCTGTGCTGGCAGCGG
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SEQ ID NO: 2097 ACAGGGAAGTGTGAGGAGAGCAGCACCCAGGAACCCAGCCAGCCAGCATG
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SEQ ID NO: 2098 ACGCGGGGACGTCGCTTTTTGATCCTTCGATGTGGGCTCTTCCTATCATTGTG
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SEQ ID NO: 2099 ACGCGGGGAGGCATTGAGGCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGCA
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SEQ ID NO: 2100 ACTCTCTGTCCACGATCATGGNAACCATCCAGTCCTTGAAGCGGCCAGTGAA
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SEQ ID NO: 2101 ACATTCACATTTTAATAAATTAACCACAAGAAAATAATCCCACATATACAA
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CNAT

SEQ ID NO: 2102 ACTTCAAGGAGAATTCCCACCACTGGAGCTGGGCTGTGCAGTGGCTACAGAA
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SEQ ID NO: 2103 ACGCGGGGCTTTTCCCGGTTGCTGCTTGCTGTGAGTGTCTCTAGGGTGATA
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SEQ ID NO: 2104 ACTTACATATCCTACATTTGACTACATTATTTCCAAACCAAGTATTCCATCCA
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SEQ ID NO: 2105 ACAAGTCCTTGTAGATCTCCTGCAGGAGCGGGTGAAGACTCATGTCTGTCTCC
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GGAGCAGCTTGGCAAACAACCTGTGAGGACTCAGGGNGGTAAANCTTNAGCTGGANCTCCAGGGCT
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ATNTNNGGGACTCAATTTTTTNAGGAAAGTACTTGGTC

SEQ ID NO: 2106 ACGCGGGTAAAGATGTCTTTTTTTTATTTTACTTTTTTTTAAAGCACCAAATTTTG
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SEQ ID NO: 2107 ACCATCTCAAAGCTAGATGCTCGAATCCAGCAAAAGAGAGAGGAGCAGCGT
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SEQ ID NO: 2108 ACGCGGGGAGCTGGAGTGCCTTCTGCCGAAGCTTGTGGTTGCACGCCCATCG
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GAANAACCAGCCCAGGTGGACATGAGTGACCGGGGCATCTCCAACATGCTGGATGTCAACGGCC
TCTTTACCTTATCCCATATCACACAANTGNTCCTNANCCATAACAAGCTAACAATGGTGCCACCGA
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SEQ ID NO: 2109 ACCTAACCAGCTAGTGTGTTTTCCCAATTTCAAAGCTACTCATTACTGTTC
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SEQ ID NO: 2110 ACCCAAGGATGTCCTGGAGTATGTTGTATTTCGAAAAGCAGTTGACAAACCCC
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TCANGC

SEQ ID NO: 2111 CCGGCCGAGGTACAAGCAGCTTTCGTTGAAGTTTAGAAGATAAGAAACATGT
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SEQ ID NO: 2112 ACGCAGGGGTATTTGAAAACCTCAAGGTTATCCAGATGTTCCAGGTCCTCTGA
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SEQ ID NO: 2113 ACCGCCAGCTCTCTGCTCTCCACAGGGCTCCCCGCCCCACCCGGCCTGATAAA
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CA

SEQ ID NO: 2114 ACAGTTCTTTCCAATCTGTGTCTTGAACCTGACAGTATTGTCTCGAAAATCA
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GCAAANTTCAA

SEQ ID NO: 2115 ACTCAGTAGTGCCCTGCTTCTAGGGCTCTGAATACGGGCTTAAAGTCATCTTG
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ATTTCCATATGCTGGAGTTTTGATTTTTAACTAACGCAAAATCTGTAGATTCTCTCCTCTCCAATCCAA
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SEQ ID NO: 2116 ACATTGACAAACACATAACTGAGGCATTAATACCTCTTTATAATAATGCAAG
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SEQ ID NO: 2117 ACTAGAAGTATACACCACCCAGCCCGGGGTCCAGTTTTACACGGGCAACTTC
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TTTACCT

SEQ ID NO: 2118 ACACCTTTTCAGGGTCGTTAAAGACCACCTCAAAAGACTTGATCTTCTTGAAC
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SEQ ID NO: 2119 ACAAATTTACATTCATGAGGAATGTTAAAAAATTCACTAAAAAACCAC
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SEQ ID NO: 2120 ACCTAGAAGAGAGGCGGGTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCAT
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SEQ ID NO: 2121 ACTTTTTTTTTTTTTTTTTTTTTTTTNGGAATGGAGTTTCACTCCTGTTGCCAGG
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CAGGAACAATTTTATAACNTNATTAATTAACNGGCATATAATNAACCTNNACNNGATTNATTTTTT
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SEQ ID NO: 2122 ACCAAGGGATGGAAGAAGTAAATATAGCTCAGGTAGCACTTTATACTCAGGC
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SEQ ID NO: 2123 GTACAATTCATCTAACTTCGGAAAGCACTTTTCACTCCAAATGCANAAACCG
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TANCCTTTTTTGATANCAATTCAGCTTTAAGTTTCTTAAAGNAGCNAAAACACTTTCATTGGNT
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SEQ ID NO: 2124 ACGCGGGTGGCTCAGAGCACCCGTATCATTTATGGAGGCTCTGTGACTGGGG
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SEQ ID NO: 2125 ACAGACAGTCCATCTCTGTTCTGGCCGGGTCCACCGTGGAAGATGTCCTGAA
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SEQ ID NO: 2126 ACGCGGGGAGCGACAATATTGACTCACGCCTACTCCAGAGTGGTCCTGAGAG
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SEQ ID NO: 2127 ACCGCAAGGGAAAGATGAAAAATTATAACCAAGCATAATATAGCAAGGGAC
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SEQ ID NO: 2128 ACTTGGCCCTTCCCCAGAAAAGCGGGACTTGCTGCTAAGGGTGAAGGACCAA
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SEQ ID NO: 2129 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCGGGAGGCAANAGGACCAACCC
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SEQ ID NO: 2130 ACGCGGGAAGAAGTGTTTCGGAGAGATGGAAGACCATGCCTGCAAAGGAGAA
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SEQ ID NO: 2131 ACCTGGATGAAGCATACCCAGGGAAGAAGCTGTTGCCGGATGACCCCTATGA
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SEQ ID NO: 2132 ACGCGGGTATCTCTGTTGCTAAAAATAGATCCTTTAGCACCTTTGGATAAAGTC
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SEQ ID NO: 2133 AGCCGGCCGCCGGGCAGGACATATTAGGCCTTTTATGAACACTAAAAACAATG
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SEQ ID NO: 2134 ACAAATAAAATCAAAAAGAGCAGTGTTCTGTTGTATTTCATTTCTGCATGTATA
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SEQ ID NO: 2136 GTGGGTCGCGGCGAGGTACGCGGGGAGCACTTCCTTCTGAGTGGGCTTCTCT
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SEQ ID NO: 2139 ACAGGTGGAACAATCCAAAGTTTAAATCAAAGAAGGTGGTGTTCAGTTGCTG
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SEQ ID NO: 2140 AACTGAAACATAAATCCGCAAGTCACCACACATACAACACCCGGCAGGAA
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SEQ ID NO: 2141 GTCGCGGCGAGGTACTTGCCCTTCCCCAGAAAAGCGGGACTTGCTGCTAAG
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SEQ ID NO: 2142 ACAAGACTCTTGACAGTTGTGCTTCTCTAGGAGGTTGGGTTTTTTTAAAAAA
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SEQ ID NO: 2143 CGGCCGCCGGGCAGGACGCGGGGGGAGATGATCAGAAATCCTTTCACTGTCA
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SEQ ID NO: 2144 ACCTAGAAGAGAGGCGGGTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTTCAT
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SEQ ID NO: 2145 GTCGCGGCGAGGTACCGCTTCTTAGAACTTCTACAGAAGCCAAGCTCCCTG
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SEQ ID NO: 2146 ACTACGACATTTCTGCCAAAAGTAACTACAACCTTTGAAAAGCCCTTCCTCTGG
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SEQ ID NO: 2147 ACATTTTCATAAAATATGAAGGGATAACTACAACTGGAGTAAAAATGATGG
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NCCG

SEQ ID NO: 2148 GTCGCGGCGAGGTACTGGCTTTTCAAAAAACAGAACAAAAAAACCCAAA
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CATCTCCACAGGCANGACCTNATGGTGGTGGGTCGGGTCTANAGGAAGGTTCTGCNTGTCTGG
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SEQ ID NO: 2149 ACITTTTTTTTTTTTTTTTTTTTTTTTTTTTNCNCAGGGGAAAATAACTTTTAT
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SEQ ID NO: 2150 ACCAAAACATTTATGACCTTATAATTTTATAGTGCAAGAAAAAGGACAAAGA
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GCTATGGNCTCACCAAGATAAATGACAATTTGAAAGAAAGTNTCCTCANCAAAATTTCTGCAGCTA
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SEQ ID NO: 2151 ACAATCAATAAGTCTTAAATCTCTCTTCCATGGATTTCCCCCATCTCCCCACTT
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SEQ ID NO: 2152 ACGCGGGGACTGTCAGGTGACGCTTCCGGCGCAGAAAAATGGCAGCCGCCG
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SEQ ID NO: 2153 ACGCGGGGGGGGCTCTGCGTTCTGTAGTGGCGCTGCTTGGGCCCGTGCGGGA
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SEQ ID NO: 2154 ACAAAGGAGGTTATAATGGACTTAACCAAGTGTGACAACCTACTGACAGCAA
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SEQ ID NO: 2155 GTCGCGGCGAGGTACATTTTCATTTTCTACCCTATCAATTTAAAAAATAAATGT
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SEQ ID NO: 2156 ACGCGGGGGCTGCCGTCGCCGCCGCCATTTTGATGGCAGGAAGAGTCCGGTT
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SEQ ID NO: 2157 ACCTTGAAAAGACACTGAAAGCATTTTGGGGTGTGAAGTAAGGGTGGGCAGA
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SEQ ID NO: 2158 ACCTGAACTCAGCAGTGACATAGACAGCAGCAATTTTCGATGACATTGAAGAT
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SEQ ID NO: 2160 GGAAGCCGGCGCCGGGCAGGTACTCTTGATGAAAGACCGTGAAACCAACAA
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SEQ ID NO: 2161 ACTTTTTTTTTTTTTTTTTTTTTTGGACACACCTGCCCTTTATTGGTCTNTTCT
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SEQ ID NO: 2162 ACATAAGCTATTCAAGATTTCTCCAGCACTGACTGATACAAAGCACAATTGA
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SEQ ID NO: 2164 ACATTTTTGTTACAGACAGAAGGCTGATTTTGGAAAGAAAGAAACAATAGGA
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SEQ ID NO: 2165 ACGCGGGGGACGGCGGCAGTGCAGAGAAAGCCGAAGATGGCGGTCCCCGCGG
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SEQ ID NO: 2166 ACATCTTGACCTTCTTGGTCTCTGAAGTATTCAGCCACAGTCAGCCCAGTCAG
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SEQ ID NO: 2167 ACCAGCTGTGGGATTTTCGTCTTCGGATTCAATTTGTTGCTTTAACTTGGGCTTTT
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SEQ ID NO: 2169 ACTCCATGGCAGACTTCACAGGGCCTTGTCCATTGGAAATAGAACGCATCAA
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AAANGAAAT

SEQ ID NO: 2170 ACCGTAAGATGGGAGAACCGGACCATGAAGTGTATTGTCAACGTTTTTGCCA
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TATTCTNNTCANCATCNTNAAATAGGAAAAATTTANTGCTANCANAAAAATAAANTNAAAAATAT
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GGGCGGGCGNTCNAAAGGGGCGAATTTCC

SEQ ID NO: 2171 ACTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCA
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GATTCTGACTCCCCAGAGAAAAGCCTGCTCTCTTTGCAAAGACAGCTTTTGATGAAGCCATTGCTGA
ACTTTGATACATTAAGTGAAAGAGTCATACAAAAGACAGCACGCTNTTAATGCANTTACTGAGAG
ACAACTTGACATTGTGGACATCGGATACCCAAGGAGACNAANCTGAAGCCTGGANAAGGAGGGG
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SEQ ID NO: 2172 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAACAAAAGCAACAATTTTTATTATCTTG
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TAAAATAATAATCGCTTTTGTGTTGTTGTTATAAAACAATGAAAATTCCTGTTGCGGAACACAAGT
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SEQ ID NO: 2173 ACGAGTCTGAGGCGGAGGGAGTAATGGCAGGACAAGCGTTTAGAAAAGTTTCT
TCCACTCTTTGACCGAGTATTGGTTGAAAGGAGTGCTGCTGAAACTGTAACCAAGGAGGCATTAT
GCTTCCANAAAAAATCTCAATNGAAAAAGTATTGCANGCAACANTAGTCCTCTGTTNGGATCGNGG
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SEQ ID NO: 2174 ACAGCTTTTAGCAAACTGCTTTCCCAGAAAAGCAAATTTAAATAATGCAAT
CAGCAGATCAAGGAGACTACAGCTAGACATCAGAGCTACAAGTTCTCATATCTGTGTCAGAAAAAT
CCTATTTACCCAGAATAGACTAAAATTTAGGACAAAACAGGGACTTTTTAACATTTCTTACTTTA
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ATCNACAGCCCGTACGGGCCTTTCTGNCCG

SEQ ID NO: 2175 ACGCGGGTGAAGATAAGAAGTTTCTTGACAAATACATGCCCCAGTTCATGAA
ACATCTTCATTATAGAATAATTGATGTGAGCACTGTTAAAGAACTGTGCNGACGCTGGTATCCAGA
AGAATATGAATTTGCACCAAAAGAAGGCTTGCTTCTCATAGGGGCACTTGATGACATTNATTGAA
AGCATCAAAANGAGCTTTTCANTTTTTACCGAAATAACATCTTCAAGAAAAAAAATTGNTGATAAGAN
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GCTTTGGCAAAGCACCCCTTCGGGTATCCTTGCATCTNAA

SEQ ID NO: 2176 ACTGAGAATGCCGTTTCGGGGGCCTTTATGGCGACGTAAGAACGGGCTTGGAC
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SEQ ID NO: 2177 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGTTAACGCATATTTGTTTTATTTA
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CAAATCCACTNNTTCACTCCCCCTTTTNAAGAACTAAACAGGTATTTCGGGTANCTGNTTCTCTTTN
CATAANTTNGNTTGTNTAATTTTTNCAAGGGTTNNGGGCAAACCGNGCCATTCTTATTTGNGGGG

SEQ ID NO: 2178 GTACAAACAGCACTTTTACCTTTGCCATAACCTCAGGATCAGGATCTTCTATA
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CTTGCCTGGGCAGCTGTTTTGTGATCTTCATATTCAAGAAAGCAAAAGCCTNTGTTTTTTTCTTGT
CATCCGGTGGTGGGTATAAAAATGACGTCTGGAAAGAACCTCTGTTACTTTGCTAAANTCTTTAA
GANTCTGTNCCTTGGTTTNTCTNTTAGGAANTAGAAGCCCACAAAAAG

SEQ ID NO: 2179 ACTTTTTTTTTTTTTTTTTNTTTGGGTTTGGNATGCNCTATTTTGCCTTAAAAATT
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TNATTCTCANTTAATTTTGGGAAAAANNTCCANAAAGATGTGTTCTNTTANATAAAAAANNTTAAANA
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SEQ ID NO: 2180 ACGCGGGTGCATGCCTGTAATCCCAGCTACTCAGGACACTGAGGCANGAGAA
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AAATGATGAACCATATCATGTCCGCTGGGTCAAAAGCATTGACATGAAATGACACCCACTGTGTT
ATTTCAATTTCTAAAATGCCTTAGAAAAAAGACCAGAAAGAAATCTGCCAGGATNTCCACAAGGG
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AAGNACCGCTCTT

SEQ ID NO: 2181 ACCCCCTTTCCATAGAAGGGGGAAGCCCTCTTCTGTCTGCCAACCCGATCG
CGACCACTTGAGTAGAGATCACTTCGGCTGCTTGAGTAACTGTCTCGACTTCCACCATATCCGTCA
CGTGAGCTGCTGTAATCATCATAGCGACTGCTTCCACCATAAGATGGCGGGGGCCCTCGTGTAGGT
GGAGCACTACGTNAGTACCATAACTCTTATATGAATCTCTGTAGGAACCTCCACTTGGATGAATCT
GAATAGTCNCGATCACGACCATAATCCATCTTTATCCGCTATATNCTCTTGAATGATAGNCATNAC
CGTGAACCTGGGAANTGACCATTAAATNACGGTAAAGTATNAATCTCGNGGNGGGTGGNGCATAATC
CTCTANTTTTACGAAGAACCTTNGGGNAATTCTTTNGATTGAATNGCTGTNTTTATAANAATAACC
CATNATNTCTTTGGGGACAAANTAAANATTTCTAACAANAAGGCAANTNGGTTCCNTTC

SEQ ID NO: 2182 ACTTCAGTTGGTGCACAAAATACTGTCATTTGCTCAAAGCTGGTTGCCAAATG
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CTCCAGACAATGATGGGCTTTATGATCCTGCTGCGATGNAGAGCCGGCTNTTTTAAGGCCAAGCA
GTGCACGGCCCTTCAATTGTGCTGGTGTGTGAACACTGCTGGGGTCAGAAGAACATACAAGGNCCC
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GAGAAAAACCTTTTGATAGTNAAAAGTTTGCNGACTGNACTTCANAAGGAGTCNCAACCCNTNTT
AACTGGATCCAAAATTTATCCNGAGTTTTTGTTTAAATATGTTTTCACTNTTGACTGGNTNAAAA
TCNTCCCAAAACTNAAATNATGTGGACATTNCTGATGTGGGCTTATNTTTTNAANAATNTTAA
AGGGGAATCCTTGTNTNTTCTAAAAAATGNNCCTGACATTNNTTGGGGNACACCTGGNTCCTGG
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SEQ ID NO: 2183 ACTGGTCCAGGAGTTATCCAGGATAGATTTTCACCCACCATGGGACGTCATC
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CAAAGCTTCAGCCCCAGATAACTATGATTCTTCTAGTGCACAACCACCCACGCACTTAAACACCA
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AAGACCCAGAAAAAGCCCCACCGNCNAANGGAAAAAACTCCTTAAACTAACTGAACTTNTGNGA
CTNNATTTCTAANTANNGGAAATNCNAATGAAGCTTGTAATGGNTGTAAGAAAAANTGNAGGCTCT
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NAAAAAGCANNTTNTT

SEQ ID NO: 2184 ACAGACATGAGATGCTTCCAGCCAGCCTNATCCAGGCTCATCGGGATTACTT
CNGGGCTCACACCTATGAACTCTTGGCCAAACCAGGGGAGTTTATCCACACCAACTGGACAGGGC
CATGGTGGCACCNGTTATCCTCATCATACAAATGCCTGATCATGCTGCTCCTGTACCCCTCCACG
ATTTCCACANAACCAGGACATTCCATGTGCCTCATGGCNCCTGCCANCTGGCCCTTTGNCCTNTTT
TNTGTTCAAGTTNTTTTAAANCGGTTGGTAAGANACTTCTTGNAGAAAACACACAATTTTNTT

SEQ ID NO: 2185 ACGCGGGCACTTGATTTAGAAGAATGACACCAAACACATCGCTGAAAAAATT
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AGAA

SEQ ID NO: 2186 ACGCGGGATGGCAATGTGGAGAAGGTGAAATTCATGAAAAGCAAGCCGGGG
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GCCCTNTGGAAGTGACCCGANGAAAACCTNTTTNAAATCTGCNATGAGCTGGGAATTAACCGC
CNTNTTCTNTGAAAATATTCTNANGCCAAAATTGAGCGCAANTCCTTTTGANTNCTTNAATGGGNA
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SEQ ID NO: 2187 ACGCGGGGATTTTCTCCCGGAACCTCTGCTCAGCCTGGTGAACCACACAGGC
CAGCCGCTCTGACATGCAGAAGGTGACCCTGGGCTGCTTGTGTTCTTGGCAGGCTTTTCTGTCC
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GCAATGCAANTTTTNGCCANAANCTTCGNTAACCATNNAGGGNNAATNGTAAATTTNAT

SEQ ID NO: 2188 AATAAAGAACCTCTATCAGTGAGACTTCTCATTTTTATAGCAAATACATTTTGC
AGCTTAAATTTTCTNGAATTCATATACGCTTCTGTCAATTTAAACAAACTTCCAGAGAAAACCTGGNC
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NNTCTTATGNAATTGGGGANNTTTNTGNAAAGNATGGTGAANCGGGGTTAACTTTAACTCTGGG
NT

SEQ ID NO: 2189 ACGCGGGGCTCTTCTGCTCTCCATCATGGCGCAGGATCAAGGTGAAAAGGA
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AANAAAAACAACNTCCNTATTTCTGGNTAACTTTTNTTT

SEQ ID NO: 2190 ACTTTTTTTTTTTTTTTTTTTTTTNGGCTTCTTATGTTTCTCTGTGCTGTATTCT
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SEQ ID NO: 2191 ACCTGCATCAGCATTAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAAACT
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SEQ ID NO: 2192 ACCCATGATTTGGACACTTTGTGCGGGCCCATTTACTTATACTGCAAAGCGTCC
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SEQ ID NO: 2193 ACTGGATGGCCCCACAAGATGCTGCCACTTTAATAAGGCTGCAATACACTGT
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SEQ ID NO: 2194 ACAGTTTAAACAACAGCTGAAAGAACTAAAGAAGCAATGTGGTCTTCAAGCT
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SEQ ID NO: 2195 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAACAAGTNTCACAATGTTT
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 CTT

SEQ ID NO: 2196 ACGCGGGGTATTTATATACTTGGTTTTAAATTAGGTCATATGTTTACATGGTT
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SEQ ID NO: 2197 ACGAAGAAAGCATTTCCTCAAGCAATGAGTCTCTTAATGGAAAAATAAAAGA
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SEQ ID NO: 2200 ACGCGGGATCAGACACTGGATCAGACACTAAACGAACTTAACTGTATATAAG
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SEQ ID NO: 2201 ACCCCTTAACCCCTTCTCCTTACCCTTAGCAGCAAGTCCCACTTTTCTAGGG
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CTCTTCAACTNACACCTGACCTAAAACCTAAATGCCTCATNTCTCTGCAACACCGNTNTGGCCC
CAATACAACTTGACAATGGCTCTAAATGGCCANAAAAATGGCACTNTCNATTTCTCCATCCTACAA
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SEQ ID NO: 2202 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTCANAACCTTTCCTCAGCATCAGAT
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SEQ ID NO: 2203 ACTCCACAGAGAGATGCAGACAAAGTAAACAATGAAGGTTGTTTTATAAAGG
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NGTAACCCAATGTATCTGTGNGCCTATTCTCTNTACCTT

SEQ ID NO: 2204 ACCTTCATCTTTACTTCCAAGTAAACCCGTGGATGATTTGATGAGGGATAAAT
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CAAAGGATAGTTGTACCAACTCATNTCTTATGGTCCATAATGAAATAAAAAATTTGTATACTGT
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SEQ ID NO: 2205 ACATAGTGTCGCGAACTCAAATCGGCATTTAGATAGATCCAGTGGTTTAAAC
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SEQ ID NO: 2206 ACATTCTGGGAGAATATCACTGACGCTCAAACCATTTTTTATTTCCAATATGTA
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SEQ ID NO: 2207 ACGCGGGGGTAACGGAGTGGTGCACCAACGTGAGAGGAAACCCGTGCGCGG
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SEQ ID NO: 2208 ACTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCA
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SEQ ID NO: 2209 ACAAAGGCATGGGGCTGTCCATGGGCACCATGATCTGTGGCTGGGATAAGAG
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SEQ ID NO: 2210 ACTACAAGAAAGAACTTTTTATATGAAGGATTCTTTATGTAGAGTATCTTTTT
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SEQ ID NO: 2211 ACGCGGGGGACTTTACCCAGTGTGCACCACAGAGCTTGGCAGAGCTGCAAA
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SEQ ID NO: 2212 ACACCGGGTGGCATTAAAGGGGTAAAGATGTCCCCCTTACGGAGCAGACCGTG
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CCCN

SEQ ID NO: 2213 ACTCTATGCATTCTATCTATACAGAAACACCTATTTATTATTACAGTTGATTTA
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SEQ ID NO: 2214 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCACTGCTGCCACCACCATGAAANAN
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SEQ ID NO: 2215 ACCCTGGGATAGGGAGCGATCTCCGAGCGAGGCGGCAAGATGGACGCGGGA
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SEQ ID NO: 2216 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCAAANAATGTAAAAATTTATTG
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SEQ ID NO: 2217 ACGCGGGGCAGGGAAGAATGACAGCCACAGGGAGATGGTGGTGGGCAAGAA
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SEQ ID NO: 2218 ACAACCTGAATTGAGGCTTCTCCTTCACTGGAGTGCACCTGCCTCTACCTCAT
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SEQ ID NO: 2219 ACTGTGAACATGACTTTTCAAGATGCTCTTTGCCCCCTTGCTGTTCATCAGTGTGGT
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TCTGACCCTTTTCCACAGGGGACCTAGCCCTATTGGGGTCTCCAGCTCATCTTTCACCTACCCC
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SEQ ID NO: 2221 ACTTTTTTTTTTTTTTTTTTTTTTTTAAAGTCAATATAGTTTCCATTTTACTGTGC
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SEQ ID NO: 2222 ACAGTTTTCTCAGAAGACTCAAGATTTTCGCCCACATCCCTTTGAGCTCCCGCT
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SEQ ID NO: 2223 ACTGCCTTGGGGCTTCTTCTCTCTCCTGTTTTCTCCTCTCGAATTCTTGTCTTCT
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SEQ ID NO: 2224 ACCTAATGAAAAGATCTCCAAGAGGTTTGTCTCATTCTCCTTGGGCTGTAAAA
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SEQ ID NO: 2225 ACTTTTTTTTTTTTTTTTTTTTTTNGNATTGAGTTTTTATTGATGATTCTATGTG
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SEQ ID NO: 2227 ACGCGGGGCCATCAACCGCCAGATCAACCTGGAGCTCTACGCCTCCTACGTT
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SEQ ID NO: 2229 ACTCATTAATAATATTAATAGGCGCTTGACCCACAGGCTGTCAAAATTCGA
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GANC

SEQ ID NO: 2232 ACGCGGGGGTTTTTAAAGGAGAGCCTTTCTGATGCCACTTTTCTGCTTGACA
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SEQ ID NO: 2233 ACTAAATATTGCTGAGAGCATCCACCCCAGGAAGGACTTTACCTTCCAGGAG
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SEQ ID NO: 2234 ACGAGTCCCCTATGCGCTGCCCTGGGCCGCAAGAAGGGAGCCAAGCTGAC
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TGGAGGACAGAACAGTGGTAGCCACAGTTGGGGTGAGGGTATAAGAAAGGGATGTGGCTGCGG
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SEQ ID NO: 2237 ACTAGGACAGTCAGTAATTAATGCATCATTCAGAGGATTATGGCTGTTCTTA
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TTTAAAAAATAAGGAGTCATTTTTTAAAGTAACTGATCAGATTCACAGGCTACTCTTGGACAGGA
TCTTGCTGGATAGAATCCCTTCATTTGGTGGCTTTTGCATGCACTTAAGTGGACCAATTCTTCTGT
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TGTAAGGTCATAGAGTCTGGCCCTCATCACTGGTCTACTCATATACCTCCAAATATGATATGCCA
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AAAGCGTGGATGANGTACCTGC

SEQ ID NO: 2238 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATCCACACCTGCCCTTTATTG
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GGACTGATNTNAAGGGAATGCTGAGGTCCAGCAGTGT

SEQ ID NO: 2239 ACCTGCTATTTTTGGTAATGATCTTCAGGCAGATTTGGCCCCATGGAGTTTTT
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AGTCAACCTTCTCCCTAGACGTTCCAACATGCTAAATTGCAGCATAATCAACCCCTCAAGAGTTTGC
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SEQ ID NO: 2240 ACTTTGACCCTGGAAAGGTATGGGTCTGCTTAAAAGAAAGAAGAAACATACA
CGTAATCACAATAAAGCTTAACATTATGCAGGGCTTATAATCATTTCAGCAACGGACTGCAAGCT
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SEQ ID NO: 2241 ACCTCACCCATATGCTGAAGATCTTTGGGGCCGTAGAAGAGGACAGCTCCCT
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CTGCAGCTCAGCGATGCCCTGCGGGACAACATCCTGCCTGAGCTTGGGGTGCGGTTTGAAGACCA
CGAAGGACTGCCACAGTGGTGAACCTGGTAGACAGAAACACCTTATTTAAAGAGAGAGAAGAA
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AATACTCCAAGTTTGTATTAAAAATGTAAGCATGGTCTGCCACACATGACATGGAGGGCAAAAGAG
CTCAGCNAAGGGCAAGCCAAGAAGCTGAANAAGCTNTTCGAGGCTNAGGAGAAGCTCTANANGGA
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TGGGACTATTGCCTT

SEQ ID NO: 2242 ACGCGGGGGGAGTCGTTGCTGTTGCTGTTTGTGAGCCTGTGGCGCGGCTTCTG
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GGAGGCCAAAATCTGTCAATCAAAATTGANTATTATTTNGGCNACTTCAATTTGCCACNGNACAANTT
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SEQ ID NO: 2243 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGTTTCGTTGTTTTCANAGGCTTTTGAAC
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SEQ ID NO: 2244 ACACAAAGAGGGGGTGGGTGTCCGATGCAGAGTGTGTGGCCTGATGCTCCAC
GGCGTGCAGGACGGGGGGCTAATAGTAGGTTTCTTCTCCACCCAGCTGCCAGGGCGTCGCCTGA

TGATGAGTTTCTGACTTCGTCATATACGAAGATGAGAANAGAGTAGGGGAAGGCACANAACCAC
CAGGTAGGTTTGAGGGGATACATCCTAANACAACACCCATTCCANGGCAGTANGAAAGGAAAGC

SEQ ID NO: 2245 ACGCGGGGAAACAATGAATCAGAAAATTTTCAGTTCTAGTTCACCATTGACTT
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TAACTTGGCCACGAGTAATGTGATTATTGAAAAATCTCANCCCCAAAAAATAAAGATGCTGTTAGA
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TGGATTTTCT

SEQ ID NO: 2246 ACTGGGTCCTTCCCAAAGGGAGAGAGTCTCCTGCTGGCTCTGAAGAAGTGAA
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GTCTTGTGAGACTCTGAACAGTGGACTTCTCCCCAGACTCCTGCTCCGTGGAAACTGTGAGAAGAT
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ATGGAGCAATANCAGNGCAGGGGGCATTACAGGCTCAATTGGCCCCATGTTTATCACTGGGCTTGTG
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SEQ ID NO: 2247 ACACTGTATACATCTTGTGTCATGATGGTCTTTACCAATGGCCCAATGTTCTTGT
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TCTTACAGGTATCCTNAAACATATTTGCTTNTCCCCGGACCANGNANGCTGTTNTGCTAAAACTGTT
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SEQ ID NO: 2248 ACITGATGATAACGGTTTTTAAATCCTTCACTCGTTCCTTCTCAAATCTTCCCA
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CTGTGTTGGCTGAAAGTTCTTTCTATGACAGACCAAGGCTTCAACACTGACATGAAGTTTCCTAA
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SEQ ID NO: 2249 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGANANACACTTCTTTTATTTAGGAAG
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CTCTCCACACTAANATTTACAATAAAAAATAAAATAATTTGTTCTGTAAACTATAGTAAAAAGTTT
CAAAATGTCTTAAAAACTATCTTCCATACAATGGAAGGCTTTTGTGTTCTTTTGGGCAANAAA
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NCA

SEQ ID NO: 2250 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNACANAAGGGAGGGANATTTAATGTT
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SEQ ID NO: 2251 ACAAGATGTGTTACTATCGCTTTGGACAGGTTTACACAGAAGCCAAGCGTCC
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CTAAACAGGTTCCAAATGAAATGTACATGACTTTACTTTGGTCAATTAAGGGGGGAATTTTTTCTA
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SEQ ID NO: 2252 ACGCGGGTGTGGATCTAAGGGGAATGCTTTATTATGGCTGCTGTTGTCCAACA
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GGAAACAAA

SEQ ID NO: 2253 ACTGGTCCAGGAGTTATCCAGGATAGATTTTACCCACCATGGGACGTCATC
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GAACTGTTGTGACTGAATATCTAAATAGTGGAAAATGCATAATGAGGCTGTCNATGGTGTANGA
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ATTGAANCCGATGAAAAATAAGAAAAAANCATGTTCTTTCGATCA

SEQ ID NO: 2254 ACGCGGGTATTATTCATCCAGCATATGGGGACCAACATGTGATGGCCTCGAT
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CAGCCTGTGCTTCGGCTAGTATTAATGTGTAAATAGCACTCTGGTAGCTGTTAACTGCAAGTTTAG
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TGGAACATATTNGAATATTTGTTTTATATGGATTTTTTATTCACTCTTCAAGAACGCTCTTANANAG
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SEQ ID NO: 2255 ACGCGGGGCTTTTTTCTTTTTTCCGGCGTTCAAGATGTCGAAGCGAGGACGT
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TCAGAAAAAAGGT

SEQ ID NO: 2256 ACCAAGAGGCCAGTGTGCTCTGTGGACCTCAAAGTTCACCTGACTTGCTTCAG
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SEQ ID NO: 2257 ACGCGGGGACCTAGTGTCTGAGCGGCACAGACGAGATCTCGATCGAAGGCG
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SEQ ID NO: 2258 ACATGTTGAAAGCTTTAAATAAGGATCCTTGGATACAAAATATGGTCCACAT
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SEQ ID NO: 2259 ACGCGGGCTGAACGTGAGAAATTGACCCAGCAGATGATCAAGTATCAGAAA
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SEQ ID NO: 2260 ACTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTAAAAATTTATCGGTTCCGACTTAAA
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TCTCATTTATGCCACCATGCAGTCTCAATCCATTTTAACTTGNTCTANATACCTAAAATTTTCCACT
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SEQ ID NO: 2261 ACAGAAATTAATAAATCAGGAAAAATAAGAAAAAAGCATTACAGTAAGAT
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AGAATGTTAATAAAAAATCTAAAAAATAAAAGAGAGAAAGGGTAAACAGATGTATACACCGTAT
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ANACCANCCTGATCAAAATGGTGANACTCCGTCTCTCTA

SEQ ID NO: 2262 ACGCGGGGGGTGTGTTACCTGCCCACAGCATAATGCGAGGCAATGTCCAGCC
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GCCTGGATCCACCACAGCCATGTAAAACCTGCAGCGCGTGAACCTGGGAGGCAAGACCAAGCCC
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ATATNTNT

SEQ ID NO: 2263 ACATCCTCCCAAGTCTGGAATACAGAATTGATGGAGGACACTTAACTTGCTT
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TCAAACAACAAATGAGTTATAATATTTTTCTAATAAGAAAAATATCACCTGNGAACTATGAGATA
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CACCAACAAATCTATCCCTGCTATTGCACCTANTGTNATCTCAATNTGTGGCTGACACCAAATGT
CTNACTTANTCTGATAGATGCTCTTATTGCATTTAANNNGGGCTAGNTNTGTTCCCTATTANCTTGT
AGC

SEQ ID NO: 2264 ACAAGATCTACCCCGGACACGGGAGGCGCTACGCCAGGACCGACGGGAAGG
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GAGGAATCAGAAACCTGAAGTTAGAAAGGCTCAACGAGAACAAGCTATCAGGGCTGCTAAGGAA
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SEQ ID NO: 2265 ACTTGGCTTGGAGACTGGCGCGGCGTTCGTGTCCGAGGTCACTANTTTCCCGG
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A

SEQ ID NO: 2266 CGCNGGGGANACATCACCGNCAACCTGGGCATNGGGGANATGGCCGANACT
GACCCCAAGACCGTGCAGGACCTCACCTGGGTGGTGCANACACTCCTGCNNCANATGCANTATAA
ATTTACACCATGTCTGACCAGATCATTGGGAGAATTGATGATATGAGTATGTCNCATTGATGATC
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G

SEQ ID NO: 2267 ACTAAATATTGCTGAGAGCATCCACCCAGGAAGGACTTTACCTTCCAGGAG
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GCCATCCAGCCAGCAGGTATGCCAGAAGCCACAGTGGCTTGGCCAGTCTTGGCATTCTCATCAA
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SEQ ID NO: 2268 ACATATTACATACTCAAAACGTTCTTTGAAATGTCAGACTCCTAACCGTATC
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TCCCAACACTTTTGGGGANGCTGAGGCGGGCAAATTACAAGGTNATGGAATTCTANACCNCCCTG
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NNCACNTNAT

SEQ ID NO: 2269 ACATGAATTAGAAGCGTGCATCTAGGATTATGGCCAAACTGTTTTAAAAATG
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SEQ ID NO: 2270 ACTTAAAGTTAAAAAAGCTGA
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SEQ ID NO: 2271 ACTGTTAAATTATTGCTAGCCATATCTTTAAAAATGGTTTTTCAGGAATATTTTC
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SEQ ID NO: 2272 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTGTCCTAAATTGTTTATTAAGTATGA
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SEQ ID NO: 2273 ACCTTGATACACATAATCAGCCTTTTCAAAAATGCCTGACAAGAATTAGTCTT
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SEQ ID NO: 2274 ACACAGCAGCCAGTTTTTCATCGGTGATCATGCACAGCAATGCCATTGCTGCC
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CAGGATTCCCTGACAAACCGTGGCGCCCTTACTACAACCTACAACCCC

SEQ ID NO: 2275 ACTTTTTTTTTTTTTTTTTTTTTTTGGGATTTTTAGTAAANACATGGTTTCGCCAT
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TANAAACCTN

SEQ ID NO: 2276 ACAAGATCTACCCCGGACACGGGAGGCGCTACGCCAGGACCGACGGGAAGG
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SEQ ID NO: 2278 ACGCGGGGGCCTCGGCGATGTCTGTGGGTTCAAGCAGCCTCCTTGATCCAGGG
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TGCTGAGTTTAACAAAACTGTAGCAAGAGCCATAGTGGGATANATTGTNATATGTAGAATGTTT
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SEQ ID NO: 2279 ACCAGCTGGCACAGGAGCAGGGGGCATGGCACCTCTGTTGTTTATGCCCAT
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SEQ ID NO: 2280 ACTGTTAAATTATTGCTAGCCATATCTTTAAAAATGGTTTTTCAGGAATATTTT
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SEQ ID NO: 2281 ACTTGTTTTCTGTATGAATTCAGAACTTTTGAGCAATAAAAAGTGCTCTGCATA
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SEQ ID NO: 2282 ACTGTAAATTATTGCTAGCCATATCTTTAAAAATGGTTTTTCAGGAATATTTTC
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CAAAATTGCAATATATGGAGCCAGGAGTTGTCTATAGAGAATTCTACCGAATCTTACAGCTTGT
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SEQ ID NO: 2283 ACGCGGGATACAAAGATATCCTAGAGACCCATCTGAGAGAGAAAAATAACAG
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SEQ ID NO: 2284 ACTGCTAAGAGGTATTATTAGAAACAAGATTTAAAAATATGTAACAAAATCT
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SEQ ID NO: 2285 ACACCANATCACGAGACATCGTTTCATACTTCCCAAATAGTTTTATATTTAG
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SEQ ID NO: 2286 ACCACACAATACTAACCCTTCCCTCCTCTGATGTCTTACATCACCTCCCAGG
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SEQ ID NO: 2287 ACTAAATATTGCTGAGAGCATCCACCCAGGAAGGACTTTACCTTCCAGGAG
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SEQ ID NO: 2288 ACNCGGGGGCAGTGAGTTCGACACACCNTGCCGACTGTCANCGTGAAGCGTG
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SEQ ID NO: 2289 ACGATGTCTAGTGATGAGTTTGCTAATACAATGCCAGTCAGGCCACCTACGG
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SEQ ID NO: 2290 ACTTTTTTTTTTTTTTAAANAGNGGCCACCACATCTTTATTGCATACTCAGGTGA
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SEQ ID NO: 2291 ACTGTGTAGAATTAAGCAAACAGNGTGATGTTTCAGAAAGTAACCCATTACTG
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SEQ ID NO: 2292 ACAAANATGGCTATAAACAAGATGCAGCCCTCGGTTTTCCATGAACAGCACAC
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NGGGNAA

SEQ ID NO: 2294 ACGCGGGGAGCGCCGCTCCAGCCACAGCCTCCCGCGCCTCGCTCAGCTCCA
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SEQ ID NO: 2295 ACGCGGGGGCTGCCACCACCTCCGCTGCTGAGGTTGCAGATGGCTCTTCCCC
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SEQ ID NO: 2297 ACTTTTTTTTTTTTTTTTTTTTTTTTTTAAACANAGCCTTGCTCTGTTGCCAGGCT
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CTCANCTCCCAAGTAGCTGANATTATAGGNGGGCACAACCAACACCCCGCTAATTTTTGTATTCT
AGTGGAACAGGTTTACCATGTTGGCAGGATGGTCCCAAACTCCTGACCTNAAAGTGATCTACCTG
CCTCGGTTTCCCAATCCCTCGGNTGGGATTANAGGTGTGAGCCACCACACCCAGCCNTTTATTT
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SEQ ID NO: 2298 ACTTTGCCTACGGCAGCAACCTGCTGACAGAGAGGATCCACCTCCGAAACCC
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CAANGTATCTGATGACAAATTACNANNGTNTCTCCCCATCCCCACAGTATAAAAAAGATTNTTTGCA
TGGNTGCAAAAAGAAAATTGNTTTGCCNTGGGAGTATTCNNGAGNATTTTAAAGCANTACANCC
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SEQ ID NO: 2299 ACGCGGGTTATCAGAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTT
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ATGAGACTATTGGATTTGAGGATATTCTTAATGATCCATCACAAAGCGAAGTCATGGGAGAGCCA
CACTTGATGGTGAATATAAACTTGGTTTACTGAATAGTGTGCTGTTTCATGGAAACCGAGGGCTGC
ATCTTGTTTATAGTCATCTTTGTACCTC

SEQ ID NO: 2300 ACTTTTTTTTTTTTTTTTTTTTTTGGGTTTTTTAANCCAAAATGTGTTTATTGANAT
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AAGCCTTGCTTTTCTCCTGTAGGCTGGCAAAGGACAGTGGANCAACCAACACAAAACTNCCG
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SEQ ID NO: 2301 ACACAGTATGTCCCTCATTTAACCAAAAAGTGATCCCAAGTTTTGTTGGTCACT
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GCAGGACCAATAGGTCATACTGTCCCCATACATACGGTCTCCAGATCTTCTGCTATTTTAAGCA
TANATTCAAGTCTCANAAAACTCATAAGCAGACTTTTCCCCTGNTCTTTNTCAGACCACACCAAAG
TTCTTGGGCCAATTTGCCTGCTTTCTAAAGCTCCAACAATAAGCANTCAGGTANCAGGGTATTG
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SEQ ID NO: 2302 ACCTTCAAAAGTGAGATTCTGAAAAGCATGAGTAAATTTGGGGGTGGTAATA
TTTTCTCCATTTCAAGAAATATCTTCAGCATATGTCCAAAGAGCAGGATTCCATTCAAATAGGCA
AGAGCAAAGTCTCGTTTTGTCTAAATAAAAAAGGAAAAATTTAAACGGGTCTTCAAAAAANAA
TCTTGTCTTGAGCCTANAACAAAAGTTGTTGGGATCANNAGGGTTACTGGAAAGTTAAAGGGAT
ATCAGGGAGANTTNAANGGATGTNNGTTAAANGAACTTTTNAGAAATATTCTTC

SEQ ID NO: 2303 GGGGTACATTTCAGGATCCCTCGGCCAAGGACTGGACCAGAAGAACAACCTTGGG
AATCTTGGGTCCACTTATCAAAGGTGAAGTTGGTGATATCCTGACTGTGGTATTCAAGAATAATGC
CAGCCGTCCCTACTCTGTGCATGCTCATGGAGTGCTAGAATCTACTACTGTCTGGCCACTGGCTGC
TGAGCCTGGTGAGGTGGTCACTTATCAGTGGAACATCCCAGAGAGGTCTGGCCCTGGGCCCAATG
ACTCTGCTTGTGTTTCTGGATCTATTATTCTGCAGTTGGATCCCATCAAGGACATGTTAGTGGCCT
GNTGGGGCCCTTGGCTATCTGCCAAAAGGGCATCCTGGATCC

SEQ ID NO: 2304 ACTGCGATTAAAAAAAAGCACTTCTGCCAAAGGAACCATGTTCCAACACCG
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CCCTCCCAACTTGAGTTGTGTCAATTCGCACCAAGTGTCTGGGTGGTAGGGATGCTACAGCCACCT
AAGGCAAGGAGCCCTGGGAGGTGGGAGGGCTTGCATGGTTAAGCACACCAGAAGTGAAGCGCAA
AAGGGTCAGCTTGTCTTCATCTAGAATCTCTGGATGTTCTTCCAGAANGCATCCCNATGATATC
GCANTGCCAAGGACACTGNCTTTGGCCTGGTCCGNTCACTTGCCAT

SEQ ID NO: 2305 ACGATGACATCTCAAGGAGTCACTGGCCCTAGGTTTCTGCAGTAGGATCTTA
AGATCTGATCTCTGCCCTCAAGTGAGTGCACGTGCAGTAAAGCTGTATCGTGCCATGACAGATGT
CTGCAAGGACTTTACAGTGGGGTCCAAAGGATGCCACCATCAGCTCCACCTGGGGCTCAACAAAG
CCTGAAAGAAGAAAGGGATGATGCTTCCAGCAGAAACCTGGAGGCCTGCAGCTCTGCCANCCCAN
ACANCAAGCGAGGCCATTTGNCCATCAGGGGCGNAGAGGGAAGTCAACCACCATCTTTTCCTA
CANNGCANTTCCATTATGAGGTTTCCACTTTAAATGCTAAATNATTAATTTTTTTTAGNGAAT

SEQ ID NO: 2306 ACGCGGGGCTTTTTCGAGGTAGGAGTCACTCCTGTGAGGTATGGTGCTGGG
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TATGGAGAGTCGGCTTGACTACACTGTGTGGAGCAAGTTTTAAAGAANCAAAGGACTCANAATTC
ATGATTGAAANAAATNCANGCAGACCTGTTATCTCTAAACCTTGGGTTTTTAAATGACCACAACAAGC
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TTNTNANCCTCAAACCTTTTGGGGTTAAGNTGATCCTNAANCNCCCAATGNGNCTTTNGANANTGC
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NCANAA

SEQ ID NO: 2307 ACAGTCTTTTATTAAATAAGAATACTTACACATACATTTTTCANATATTTCTAC
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GGCATNTGGAANTCCATGAAGTAAAGAGCATNCTTTTAAAGCANATTTGATNGCTNNCCTTTN
AANTATATGAANATTCNGAGAATCTCTNATTANACCNCANTNCATANAANATTCCTAATACCCCT
AGG

SEQ ID NO: 2308 ACTATTTTCATGGTCCAAACCTGTTGCCATAGTTGGTAAGGCTTTCTTTAAGT
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AAA

SEQ ID NO: 2309 ACCCTTGGACAAATTGTTTCCAGCAAGAAGCTAACTCGACCACTGGTGATGA
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AGTGGTCTTGTTTGAATGGAAGCCAGAAACTGGATAATAAGGATCTATTTGGAAAGTCAGACC
CATACCTGGAATTCCACAAGCAGACATCTGATGGAAACTGGCTAATGGTTCATCGGACAGAGGTT
GTTAAAAACAACCTTGAATCCTGTTTGGAGGCCTTTCAAGATCTCTCTTAACTCACTGTGTTACGGA
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SEQ ID NO: 2310 ACATTGAGAATATGTGTAAGTCATTTTAAAAAGGCTTCTTGTGATTAAAAAGA
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GAAGCCCAGCTATCTGTGGTTGAGAGCTCACTCCCTTGAGGCATTGCAGAGAACAAAGAGACATGG
GCTGNGGGGCGNGCTTTTCAATAAACTGAGAGGCACATCAACATGGCACTGTNTGTGTCCACTTA
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SEQ ID NO: 2311 ACGCGGGCAAACCCTGTTGAGATAAAGCTGGCTGTTATCTCAACATCTTCATC
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AGATATGAANACTTANAAGANTCCTTGAGGGAAGGAAAAAGATAAAACNGTTNTAAAAACNTGAC
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SEQ ID NO: 2312 ACAGAAAGAGCACAGGCCAGCTCAGCCTGCCCTGGCCATCTAGACTCAGCCT
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CTCATTCTGATTCTCTCTCTTTCTTTCAAGTCGGCTTCTCTCACATCCCTCTGTTCAATTTCGCT
TCAGCTTGTCTGCTNTANCCNTNATTTNCANAAGCTTNTTNTCTTTGGCATCTATTTGCAGTCCCTN
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SEQ ID NO: 2313 CGNCGAGGTACTAGAAGTATACACCACCCAGCCCGGGGTCCAGTTTTACACG
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CTGCCTGGAGACTCANAAGTGGCTGATGCAGTCAATCAGCCCCGCTTCCCTCCTGTGCTGCTGAG
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SEQ ID NO: 2314 ACACCAACCTGAACAGATTTTGTGCCACAATTTCAATTCAAAGGGTTTGTCAAT
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CAGAAAGATATCTTCAAATTGCAAACACATCTATTTCCACAAAACAATTTGGTCAGGAAATTTTAT
TTGAACATTCTAAAGCAATAATGCTTTAGATGTTCTTAAGTGTCCAGACAGGATTAACAAAATTA
AGTGTCTCTAAATTACAAATTTGGCTCCTGTAGGAGTCTCAGAAAATAAACAGAGAAAACAACC
CCCCTCCAAAAGAAAGTATGACACACACATTTTGAAGAAACCCCAATGTTTCATGCAATGGTAGG
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SEQ ID NO: 2315 ACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTCCACTGAACTTCTGAT
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CACCAACCTGTGTGCTATCCATGCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCAC
GCCGATACGTGGAGAACGTGCTTAAGAATCCACTATGATGGGAAACATTTCAATTCTCAAAAAA
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AGGAAAAGTANGAAAAGAGCGGGATGGGATGGGATGGGATGGGATGGGATAGGAAGANAGGCT
GGGA

SEQ ID NO: 2316 ACTATTAAGCCATGGTCAACCCACCGTGTTCTTCGACATTGCCGTCGACGGN
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SEQ ID NO: 2317 ACTTGATTTTGAACACAGCACGAAAACATTTTGGAGCTGGTGGAATCAGCG
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CTTTTGAAAGGATGAAGTGCTTCAGTGAAGAGAATCATGAACCTCTGAGGACTCANTGTGCCCTTG
CTGCATCCAAACTTCTAAAGAAACCTGATCANGGCCGAGCTGTGAGCACCTGTGCACATCTNTCTG
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SEQ ID NO: 2318 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTGCCNCCACCATGAAAGAGTGG
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AGCAACCGGGCTTNGTCTANTGAGGTCTGAAANAATTCCTGGNANAGCGTAGGGGGGAGATTANAT
CTCGGAATNGACAGCAAGTTTGGGGACATTGCAANAAAAANAGGGGNGACCTGTGAATTGGAGCT
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TTTTT

SEQ ID NO: 2319 ACACAAAGAGGGGGTGGGTGTGCGGATGCAGAGTGTGTGGCCTGATGCTCCAC
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SEQ ID NO: 2320 ACTGTGGAGGCTGAGGCAATTTTCTTCAGGCTAACCCAGATTTTCTAAAGCCC
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TTCTCCAAGCTGCCCCGGCGAGAGCCACCATAGGTGGGNGGACTTGNGGCCCTTCAAAGGCCGGGT
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SEQ ID NO: 2321 ACACCTAGGACCTCTAGTAAACCTCATAAACATCTGCCTCCTGCAGCCCTACA
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ANTTCCTTAACTG

SEQ ID NO: 2322 ACCTTGTAGCATTCTGAGGACAGGCCTGATTTCTGAGAAGGGAAAGTGGTAA
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ATGTGTACGGAAGGNA

SEQ ID NO: 2323 ACTGTCTCTTTTGAAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCA
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SEQ ID NO: 2324 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATTTATAAATGCATTTTAATACC
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TCNACGGATTANNNTGGGCACCNTNNNTTCTGCCGGGNGGCCNTNAAAAAGGGNTAATTNNTCC
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SEQ ID NO: 2325 ACAACTAAAGGCAACTGGCATGGACTCAAAATATTTTGGGGAAGAAAAAGACT
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SEQ ID NO: 2326 ACGCGGGGGCGGGAGAGAGGGCCGAGATGGCAGATGAGATTGCCAAGGCTCA
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CGGCAATGCATTGGCCTCCTGGTTAAGCACGTTTTGGGGATAATTTTCTTCTTTAGGCAATGAT
TAAGTTAGGCAATTTCCAGTATGTTAAGTAACACACTTATTTTGGCCTNTGTATGGAGAGATTCA
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SEQ ID NO: 2327 GTTGGTGGAAGGAGTGCCAGTCCCAGGGTGACACTGGACAAGAAAGAGGC
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SEQ ID NO: 2328 ACTCGTCAATGGGCTCGGTTCATATATACCACCTCGAAGCCCCGTTTCCGCACT
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SEQ ID NO: 2329 ACTACGCAGGCCTTGGCATCCCTGGGGTTACCTGGCTGACTGGGATGTTGAGGCGGGCAGCAATGTCTTCCACGGTCTCATTGCCTTCTGAGATGATGCCCCACACCTTTGGCAATAGCTTTAGCTGTGATTGGATGGTCTCCTGTGACCATGATGACCTTAATTCCAGCACTTCNACATTTGCCCACGGCATCAGGAACGGCCGCCCGTGGAGGGTCAATCNTGGAGATGAGCCCAACAAAAGCACANATTATCGATAGGGAAATTCCATCNTCAGTGTCAAACCTGGAACCCTTCATGAAACTTGTTTCATCTTGGCAGAAAGAGGTGGCAGAAACCTTNGACTCGTTCTCCGANCCCCNAGCTCCAAATANNGCGNTTCTGAAAGGCGNCTTTANCTCTCATCCAAGGGCTGNTCCTTGCCGNGNANGANGATAAAANTGANCNGTNTATGATNCTTTCTNNGGCNCCCTTNATCAANAAACAGGTGTTTCCG

SEQ ID NO: 2330 ACATTACGCACCATAACATGCGTCTTTAAAGCCTTCCCAAATATTAGTAATCTTGACCAGCAATGACAAGAAAAAGAGGAGCACCTTTACAAGCAGTTGATATCCAATATTAAATAATTGTGGCTTTAAAAATATTTCTTTAAATCTTGCAATTACACTTTTCTTTTAAACCAATCTTCCAGGAGATTAATCAATGAAATTTATAAGTTTATCAACGTATAAAAATTTTTCATCTTCTGGGACTCATAGAATACAATCTGTGTTTCTGACCAGTTGAGGTAGTTAAAAATAGGGAGGGCTTTTCTAATTTTCGTATTGACTATTTAGAAAAGAAAGGTTATCTTTTACTGGTGAGCACAGTCATTGCTCTGCAGATGGGCTAGGATTCAAAGAATATAACACAGTGTGTTATCATAAAGAGTGTGAAGTTTATTTATTATAGCACCATTGAGACATTTNGAAATTGGAATTGGAACAAAAATAAACAAAAAGCATTGTAATTGTATTTGGTGGAAACAGCAAAAAAGAGAAGTTCATTTCTTNGNCAATATACTGNGCCAACATTTGGAANTAATAAC

SEQ ID NO: 2331 ACCTTCACTATCACTGGGCGTTTTTGGAGAACATTTCTTCTGGGAGTTACCTGACATTTGGCCACTGTTTTCGGGTTCTCAGTTGAAGAACTGTTGGGTGGAGCTGACAATGAGGTCTTGGGAGATGGGGAACGGCCCATGGCTGTGGACATGCCGGCTCCTGCAGGAGAGGGAGGCTGAGTCTGTTCTCGGACACCTTACTCCCTTTGGGTCCAGCCTTTTCTTGGTTGATTTTTTCTTTTCTGAGCTCCAGGAGTTGCCTCTGCTCCTTCAGTTTGGACAGTGTCTGTGGAGGGGTGCAGGTGAAGTACCATCCACTTCCTTCTTCTCTTTCTTGATANGGCTGGTCCCTTCACTATTAACCTTTNTTTTTAAANAGTTTCANCCAGNTCTCCAAGCGTTGGTATNTCTTNCAAAAAATNTTNATTACTTTGCCCAAACCTCNCNCTCACCTCNGAACCTTTTTTCCTC

SEQ ID NO: 2332 ACTACTTCTCAAGGAGGATTTCATGGTCCGTCCTTTGCTCACTACAGATTTCTCTCTTCTCTGGGAAAAAATGGTCAATGCTTCTGCTTCCCTTTAATAAACTAATTTCTTGATTATTATACATTATTATTATTTCCCACTTGACACCTTCTTAGAACTTGATTGTTGGATGTGTTTTTCAATTTGGCAAAAATTCAATGTGGCTTTGCGTGGGATGTCTGAAGTGTGAGAAACAGCACTGTTGATGTTCTGGTTTTGAGAGGGGAAATATATATAGAGATGCATACATTCCCTAGAGAACAATGTAAGAAAGACTGAATAGGGCGTGCACAGAGTTAAGAGGGCTGACAGACACTACTNGGTTTGGAAATTCTGTGGCTGTGAGCCATCAAGGACTGCTGTGTAGGCCANAATNTAAATCTCCTTAGGAAGAATTNTGNTAGGCNNAACCACTGNAAATGNC

SEQ ID NO: 2333 ACACATACACACCTAAAGAGTTCATGGCCTTCTTAAACAGCTTTCTTAATCCTTTCTGGAAATATCCTTTGGTTCATTTTTATTGCCCTCTCTAGGCAAAACAAAGTATGTTAACGCAGGTATCAGTGAGTTATTTCTTAGCACTTGTAAGCAAATATCCTTACCAAGAGGAACCATTCACCTTTATAATATCGTAAAGCGTGGAGTTAAGATGTGTTTTTAAAAAATATACAGGCTTTTTATATGCTTGATCTGAAAAAGGTAACATCCACAATGACATTCTATTACAGAGTTCTTACAATCACCTAGCCTACTACACTCTGGTATAATACTCTTTCTTCAATCTGTTTAACAGAATAAAAGTAACCAAGGTTAAAGCAATGCATTTGAACCTTAAATATAACCTGCCACAGGAATTAAGTAGTTTTATTTCCCACTCCCTATTACATAATTTCTCAGATCCCCCTTTACCTATTGCTTAAAGTGGATAAGCACATAGTCATGCACACAGATTTGATGTCTACCAAGTAACTGTATGGATTTATTTGNATCAATAAAAGGGNCATGAAAATTCTGGTGGAATCACATCCATGTTGCTTCACACGAA

SEQ ID NO: 2334 ACTATGCCAAACACTTATAACTTGTATAAAAAATTCCACATCCCCATATTGGCCACCTCANGATGAAAACAGATAAATCCCTAAATGTTAACTGGCTCTACTCCCCTAATATTAAACATAAAAACCATGGAATATAGAAATTCAAATAGAAAGTAACATAAACCTGTCATAAATCGTAAACAAAACTATTTGTGGGACAGCATGGATGACAAATGGTCTACTGTGTAATTTAGAAATGAGGCAGACAAAAGTTGGAAGGCCGGTTAATTTCCCTCCTTCTCCTGCTTCAGCTTCGTCTCTGCTTGGGTATCGATGTCCACAATGTCAAAGTTGTCTCTCAGTAATTGCATTATTAGCGTGTCTTTGTATGACTCTTCACTTAATGTATCAAGTTCAGCAATGGCTTCATCAAAGCTGTCTTTGCAAGAAAGCAGGCTTTCTCTGGGAGTTTCAAGATCTCATAATAGAACACAGAGAAGTTAGGGCCAGACCCATCTNGATAGGATGTGTGGTTGCTTTCTTTTGTGCTGTTTCAAAGCTNCTGGTATGC

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SEQ ID NO: 2343 ACGCGGGCTATTTGAAGATATGACTGATTCTGACTGTAGAGATAATGCACCC
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 GGNTACTCANGAGCTGANGCAGGAAAATCACTTGCNCTCCCGG

SEQ ID NO: 2344 ACNCGGGTGATCGACCANAGCTAACAGGTGCCAAAGTGGTGGTATCTGGTGG
 TCGAGGCTTGAAGAGTGGAGAGAACTTTAAGTTGTTATATGACTTGGCATATCAACTACATGCTGC
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SEQ ID NO: 2345 ACTAACCTCATTGTAATGAGGTTTAAAGAGAAGGCCAGCACTAAGCCAGGCT
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SEQ ID NO: 2346 ACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTGGAAGAG
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SEQ ID NO: 2347 ACCTGCATCAGCATTAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAAACT
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SEQ ID NO: 2348 ACGCGGGGCTTGTCAGTGAAACACCCTCGGCTGGGAAGTCAGTTCGTTCTCT
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NACGGACTGTCAGTTCTCTGGGAAAGTGGTCANCGCATCTGCAGGGCTTCTCTNCTCTGCTTTGN
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SEQ ID NO: 2350 ACCTTGGCTTGGCTCTTGACGTGGACAGAATTAAAAAGGACCAAGAAGAGGA
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GANGAAGGGGAAGAAAAGAAGGGGAAGAAGATCANAACCCACCTTGCCCCANGCTTANCANGGA
NCTGCTGGATNAAGAAAGGGCCTNAAATNTTGCAGGACTCACTGGATAGATTNTTTTCAACTCCT
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SEQ ID NO: 2351 ACGAAGAAAGCATTTCNAAGCAATGAGTCTCTTAATGGAAAAAATAAAAG
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SEQ ID NO: 2352 ACAAAAATACAGTTGATGACTTGACAAAATGGCTACACCTAGGGCTTGAAGG
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SEQ ID NO: 2353 ACATAGACAAGTTTCTTGTNAGACAGAAAACAGAGAAATCCACAGTAACTCT
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SEQ ID NO: 2354 ACGCGGGGGCGGGAGAATCGCTTGAGCCCGGGAGGTGGAGGTTGCAGTAAG
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GNNNTGATAC

SEQ ID NO: 2355 ACCCGACCTCCATCTTCAACCAAGAAATGTTATCTCTAATATAAACGAGACCTC
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SEQ ID NO: 2356 ACGCGGGGAGTGTGAAATCTTCAGAGAAGAATTTCTCTTTAGTTCTTTGCAAG
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SEQ ID NO: 2357 ACTCTTGATGAAAGACCGTGAAACCAACAAATCAAGAGGATTTGCTTTTGTG
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 TTTNCGNTGATG

SEQ ID NO: 2358 ACGCGGGGCTCTTCTGCTCTCCATCATGGCGCAGGATCAAGGTGAAAAGGA
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SEQ ID NO: 2359 ACTGGCCCTCAGTGCTGGCAAAGGTGTAGTTCCACTGGCCGAGGGGAATCAAG
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 CAATGAGAGCAGCCAATACAGAAGAAAGCATCGCACATCGTTTGCCACAGTTTTATGGCCACAG
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SEQ ID NO: 2360 ACATCAAGTCAGAATGATGTTGACATGAGTTGGATTCTCAGGAAACATTGA
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SEQ ID NO: 2361 ACCGGAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAAT
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SEQ ID NO: 2362 ACTTTTTTTTTTTTTTTTTTTTTTTTTTAAATNAAATCAGTAGTTTTATTACAAT
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CGGGGA

SEQ ID NO: 2363 ACTTGCCCCTTCCCCAGAAAAGCGGGACTTGCTGCTAAGGGTGAAGGACCAA
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SEQ ID NO: 2364 ACACCTTGAAGGCGAGGTTAATTAATCCTGTTGTGGAGTTTGAGGGCCGGA
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AGACGGCCTTTTGACCTTTAAGGGTCTANAGGCTGTAAAGTGTCTCAGGGTTANTANCNAACAAA
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SEQ ID NO: 2365 ACGCGGGGGAGGAGACTATACAACACTACAATAGAAGCATTTATATCTGCTAGT
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SEQ ID NO: 2366 ACACTAGAGGCTTTGGTAAAACATCTTCTCTCCAGAGGGTGAAGATAAATAA
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SEQ ID NO: 2369 ACACTAACTTTTAAGTGTGTGGCACAAATGGAATAGAGACATGAAGTTTAAT
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SEQ ID NO: 2370 ACACTGAAAACCTGGACATTNTAACATTAATTTTATTAGCTCTCTGGGAGTGAG
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SEQ ID NO: 2371 ACTAGGCTAACTAGAAGGATCTCATCCCCATATGTGGTCTCATTTC AAGTCTA
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SEQ ID NO: 2372 ACGCGGGGCTTACAAGTCCTTCTTGATCCTGAACTGGGTAGGTGCCGCTGTT
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SEQ ID NO: 2373 ACAATGCCTGCCATCATGGGTGAGAAATTTGAAGGATGAAGAAATCTACTGT
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SEQ ID NO: 2374 ACAGAAACTGGTATTTTTTGGTGCTGATACAAGAGAAATGTATTTTTTAAATATC
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SEQ ID NO: 2375 ACCTGTTATTGAATCAACAGAGACTATAGAGGCTAAGGCTGCCCTTAAACAG
TTGCAGGAAATTTT GAGAACTACAAAAAAGAAAAAGCAGAAAAATGAAAAATACAAAATGAGC
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SEQ ID NO: 2376 ACACTCGAGATGAAGATCACATTGCATTGATCATAGAACTTCTGGGGAAGGT
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SEQ ID NO: 2377 ACATTAGCACCATAACATGCGTCTTTAAAGCCTTCCCAAATATTAGTAATCTT
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SEQ ID NO: 2381 ACGCGGGGCAGGCAAACCTGAGGTCTCAGAATGGCGGGCACAGGTTTGGTG
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ANAAAT

SEQ ID NO: 2382 ACCATGAAATATCCAGAACATACTTATATGTAAAGTATTATTTATTTGAATCT
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SEQ ID NO: 2383 ACGCGGGGAGCTCTACGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTG
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SEQ ID NO: 2384 ACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAG
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AANTNNGG

SEQ ID NO: 2385 ACGCGGGGCTCACTCTGCGCTTCACCATGGCTTTCATTGCCAAGTCCTTCTAT
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TCCATCC

SEQ ID NO: 2386 ACTTCTAATTCCTCTATTACTGTGCAAATCTAGAATTTCTATGTAAAAGACA
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SEQ ID NO: 2387 ACGCGGGCAAACCTGTCAGTGAAACCCGCCGTTATTAAACGATTGATTAGTGTC
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TANTN

SEQ ID NO: 2388 ACCAGGGCAAGAAGCCGGATGTCTGCCCTTCCTCAACCAGCTCCCTCAGGAG
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SEQ ID NO: 2389 ACACATCCAAGCCTAAAGAAAAATTAGTCTATGCCATTTTCTTAAATGGCCC
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SEQ ID NO: 2390 ACACAAAGAGGGGGTGGGTGTGGATGCAGAGTGTGTGGCCTGATGCTCCAC
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 ANCCANAGCTGTTTTTTNAAAGATGNCTCAAATTT CATNATNTNTTTTTNTNCCCTNTNTNTAAG
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 G

SEQ ID NO: 2391 ACTCATT TACAATAAAATAACCAAGTGAAGTTACAAAAGGCATATATTACTG
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 TTTTCACAAGATAATAAAATAAGTTAAATAGTTTTCATATTGAGTTGTGGTGCAGTGGTGCNAATCA
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 TTNCAGA

SEQ ID NO: 2392 ACAGAGGGGTCTGTTTCTAAGTCTGGAACCTCAACACGAGGCTGGGATGCTT
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SEQ ID NO: 2393 ACAGAAAACATAAATCATCGAGGTGGATACCATGGTGGAAAGTTCCTCGTTCTC
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SEQ ID NO: 2394 ACAAACCATCGCCATCAAAAAAACGCTGTTCTGACAACACTGAAGTAGAAG
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 CT

SEQ ID NO: 2395 ACACTTCTAAGTGTGCAGTGCAAGAGCTTGTTTATATTT CATACTTTTTTATACT
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SEQ ID NO: 2396 ACGCGGGGAAGCCAGCTGCTCGGAAAGCTCTGGACAGATGCAGTGAAGGCT
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SEQ ID NO: 2399 CGGCCGAGGACGCACTGAAGGAGACAAGAAAGCAGCAAAGGTTCAAAAGCT
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SEQ ID NO: 2400 ACGCGGGGATAGGGAGCGATCTCCGAGCGAGGCGGCAAGATGGACGCGGGA
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SEQ ID NO: 2401 ACCCTTGGAGATACTGGAGCGCTTCTGCATTACAGGCTGGTGCTCACCATTGAT
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SEQ ID NO: 2402 ACGGTAAATTCAGTGGCAGATACAAAAGCTTATTTGGGAGACAGCAGATCTC
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SEQ ID NO: 2403 ACCCATAAATTCAGTGGCAGATACAAAAGCTTATTTGGGAGACAGCAGATCTC
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CAAATAAACCAAAACAGGAAATACTAAAAATAAAATATCTGACACTGCCATACAAATTGTTAGTT
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SEQ ID NO: 2404 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAACCTATTACTTTATTTATATTACTATG
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AATGGGCTNTGGTGCTACGGTTCATCTCCAACAANAATATGGCACACCGGCCAGCACAAGCCATG
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ATAGCTCACCACATAGCTGCANACAGACTTTGGTGCCTNAANAAGTAAACATAGGGTAAAAAATT
AACGGGCTTCTGCATAATATTNTCTCTACCACTGCTGTTGGATGGAAAATTCCAAATTTAAAAAA
AAAAGAANGATAGAAAAGAAGGGNTTCCATTTTA

SEQ ID NO: 2405 ACTCTTGCTTATATCATCACAGAGCTGGATGAGAGAGAGCGAGAAGAGTTCT
ATAGGTTAAAGAAAATACAAGAGAAGAAAACGATTCTAAAGGAAAAATCTGAGAAGGACTTGGA
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GATCTTCTATTTGAATAATCTTTCCTGTTCTGGTTCTTTGAGAAACCCTAACACTGGCTTCATTTTA
ATTCACAGTGTGTAGGTTTGATTGTGTGGCTATTTATTTTTTGGCCTAAGAATTTCACTGGTTGTA
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GGATGAAAGAGATCTGTNAACCTGCCAGGAACTTACNNANTTTACTTTGNAGAAGCCGTTNTC
ATACTCCATTTACATNTGTGTACACNGTGATCTNNTTACCANGCCATTTAGGGAAATACCTTNTT
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SEQ ID NO: 2406 ACGCGGGCTGGGTGCAGTGGCTCATGCCTTAAATCCTAGCACTTTGGGAGGCT
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TAATTTAAAAACTCCCAAAAGAGAAATCTTCAGGANAAATCTCCAAAAATTGCCTGGATATTTCTC
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SEQ ID NO: 2407 ACGCGGGGCGCACAGAGCTCTCAGCGCCGCTCCCAGCCACAGCCTCCCGCGC
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TCCTAAGCTTCATGAATACAGAACTAGCTGCCTTCACAAAGAACCAGAAAGGACCCCTGGTGTCTTG
ACCGCATGATGAAGAACTGGACACCAACAGTGATGGTCAGCTAGATTTCTCAGAATTTCTTAATC
TGATTGGTGGCCTAGCTATGGCTTGCCATGACTCCTTCCTCAAGGCTGTGCTTCCCAGAAGCGGA
CCTGAGGACCCCTTGGCCCTGGCCTTCAAAACCCACCCCTTTCCTTCCAGCCTTTCTGTCATCATCT
CCACAGCCCACCCATCCCTGAGCACACTAACCACTCATGCAGGCCCCACCTGCCAATAGTAAT
AAAGCAATGTCACTTTTTTAAACACAAAAAAGGAT

SEQ ID NO: 2408 ACAGCCAGTGTGGGGATGTGATGAGGGCCCTGGGCCAGAACCCTACCAACGC
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AGGACAGCAATGGTTGTATCAACTATGAAGAGCTCGTCCCATGGTGCTGAATGGCTGAGGACCTT
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CTTCTTTGTTTANCAACTTTCCATTTTGTCTTNTTGGGATGATNTTGGCGTNAGCATTNANCN
AAATTAACTTTTTTTTTGGGG

SEQ ID NO: 2409 ACGCGGGAAGTCCCAATTATCCCAAACCATATCCAGAGAAGTCAAGGTGTAA
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CCAATGCCCTGCCCTAAGGAAGACACTCCCAATTCTGTTTGGGAGCCTGCGAAGGCAAAATATGT

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GNTAATN

SEQ ID NO: 2410 ACGCGGGGAGGCATTGAGGCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGCA
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GGTTTCTAAAACATGACGGAGGTTGAGATGAANCTTNTTCATGGAGTAAAAAATGTATTTAAAAG
AAAATTGANAGAAAAGGACTACAGANCCCCGAATTAATACCAATAGAAGGGCAATGCTTTTAGATT
AAAATGAAGGGTGACTIONAACAGCTTAAAGTTTANTTTAAAAGTTGTAANGTGATTAAAAATAATT
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SEQ ID NO: 2411 ACCTTTGTCACAATCCTAACACATTATCGGGAGCAGTGTCTTCCATAATGTAT
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TTGCAGAAACATTTTGTGGTCATTAAGCATTGGTGGGTAAATTCACCACTGTAATAATGAAATTA
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SEQ ID NO: 2412 ACTGCTAAAGATAAAAATACAGGGAGAAAATAACTTGTAGCAATAGATCCCC
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TATTTTTAGCACAGCAGCTGTGGAGCTTTTGTGATAATTTTATTGTTGGTATCTTAGAATACTGTT
CGTCTGACAGTTTATTCTTCCATACCTGTCTCCCAAGTTAAAACAGAGCAAAAACAGATAAATTATT
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TAATGAACCCCAAACCTGTCACTATTACATTCAGTGCCATATTTATCTTTCAAAAACAGTATTTGTTTC
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SEQ ID NO: 2413 ACGCGGGATGAAAATATAGACATTCTCACATAAGCCCAGTTTCATCACCATTT
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ACTGTCAGTTCTCTGGGAAGTGGTCAGCGCATCCTGCAGGGCTTCTCCTCCTGTCTTTTGGAGA
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NAGTGAGATGTAGAAAGTTGTAAAAATAGAAAAAGTGGAGTTGGTGAATCGGTTGTTCTTTCCCTNA
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AAGAGTTNCACAAATNCTTTCAAATAAAAAAGTAATTGACTTATNAAAA

SEQ ID NO: 2414 ACTTTGCCTACGGCAGCAGCCTGCTGACAGAGAGGATCCACCTCCGAAACCC
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GGGGAGTAGTATGGAAAAATGAACAAAAGCAATTTAAATTCTCTGNATGAGCAAGAAGGGGTTN
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SEQ ID NO: 2415 ACACGTTCTTGTGTCTGGCTCGGCAACAAACACCACTTCTGGCCAGTCTTC
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SEQ ID NO: 2416 ACGCGGGAGAGACCCCGGACCCAGCGCTGTCTCTTCCC GCCGCCCGAACCA
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AAACCTT

SEQ ID NO: 2417 ACGCGGGGGAGGTGCCGCCATTTTCATCTGTCCTCATTCTCTGCGCCTTTTCGCA
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SEQ ID NO: 2418 ACGCGGGCATCTGTTACCCAGATCTACCATGCAGTTGCAGCTCTAAGTGGCTT
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SEQ ID NO: 2419 ACCCTCCAGGTCATGGTGATATTTACGCCAGTTTCTACAACCTCTGGATTGCTT
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SEQ ID NO: 2420 ACAGAAATTTACAAGAAGTCAAACACAGTGATGCCATTTGCTATGTTTTATT
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TATTTA

SEQ ID NO: 2421 ACGCGGGGAAGATGAAGGTAAGTAGAAACCGTTGATGGGACTGAGAAACCA
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CA

SEQ ID NO: 2422 ACTGGATTTCCATTTAAACAGGGTTAATTTGGAAGAATCTTCAGGAGTGGA
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SEQ ID NO: 2423 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGANACANAGTCTTGCTCCATCAC
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ANATGATNTGCCTGCCTCCACCTCCCAAAGTGCTTGGATAACAGGTGTGAGCCGNTGNTCCCGGC
CCCCTTATTTTCTTTAGTGCTCAGCTCTCCCCTTTTGGCTCATGAGGTCTAGATAGGGCATATGA
ACCACATCCACCTGTCCCCAGGGACTGGTAGGCACATGTNTTAANTTAGTCCAACCAGAGCCAAC
AGACACCAAGCCCGGGCTTTTGTGTCGACATACCCCGCGT

SEQ ID NO: 2424 ACAGGCTTAAATCTATGTCATTTACACTCACTGAATCATCAACCTCATCACCA
CCTGTTCCCTGGGTGTAGCGGGTATCATCTGCTTCTCATCATCATCATTGACCAGTTCAGGACGA
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SEQ ID NO: 2425 ACAAAAAAATTCCTTGCTTGCAAGATTTTTGTTACTTTTTACTTAAATATTTA
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CC

SEQ ID NO: 2426 TACGGTCTGAGACATCACCGCCAAGCTGGGCATCGGGGAGATGGCCGAGACT
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SEQ ID NO: 2427 ACCTGTGGTATGAAGCCGACAAGCGCCGCTGTTCCACCCCTGGATTAAGCC
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SEQ ID NO: 2428 ACAGGTGGAACAATCCAAAGTTTAAATCAAAGAAGGTGGTGTTCAGTTGCTG
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SEQ ID NO: 2429 CNCGGCCGACGTACTTCCACTCTTNCTTTAAANCTTGCCATTTGCTTATCA
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SEQ ID NO: 2430 ACTTTCCACTCTTCCTTTAAAACTTGCCATTTGCTTATCAGTTCCTCTGGGGC
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CCTT

SEQ ID NO: 2431 ACCAATTAAAGTTGAACAAATTGAAGCAGGGACACCAGGCCGACTCAGAGT
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GACTGGAAAAATACCTGTACAGATGAAGAACAGACCAATGTGCCTTACATCTATGCCATTGGCG
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AGGCTCTATGCAGGTCCACTGTCAAGTGTGACTATGAAAAATGTTCCAACCACTGTATTTACTCCT
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SEQ ID NO: 2432 ACGCGGGCCAGCAGTTACTCATGGAATATATTCTGCGTTTATAAACTAGTTT
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SEQ ID NO: 2433 ACTCTCCCTACTTCCCTTAAACTCACTCGTATTTCTGAAGAACAGTAATAAC
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CTCCCCAGCTATCTCCACCACACTATCAACCTTACCCATTCTCTCCTAGCCGCTTCTAATCTCTCCT
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SEQ ID NO: 2434 ACATAGTGTGCGAACTCAAATCGGCATTTAGATAGATCCAGTGGTTTAAAC
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GGACACTGGTGGCAGGTTAAGGGATACTGCACTTTAAGAAGCCTGCTGATTGAAGTGTAACATN
GGAGAAATNAGGGGCTGATTTTTTAACTGTGTGAGATATT

SEQ ID NO: 2435 ACTTGGCTTGGAGACTGGCGCGGCGTTTCGTGTCCGAGTTCTCTGCAGGTCAC
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SEQ ID NO: 2436 ACTTGTATTGATTATGTAGTTCAGTAAGATGTGCCCAAGTCATTTTCAAGAAAGA
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SEQ ID NO: 2437 ACAGGATGAATTTAAATGTGTTTTTCTGAGAGACAAGGAAGACTTGGGTAT
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GGGC

SEQ ID NO: 2438 ACCTAGAAGAGAGGCGGGTCAAAGAAGTAGTGAAAGAAGCATTCTCAGTTCAT
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SEQ ID NO: 2439 ACATTAGCACCATAACAGGCGTCTTTAAAGCCTTCCCAAATATTAGTAATCTT
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SEQ ID NO: 2440 ACGCGGGGGCACAGCCAGAGCCTAAAGGCTAGAGCCGGAGCTGCCGCGCCA
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SEQ ID NO: 2441 ACATTTAGAATTTTTGGCCGGGTGCAAGTGGCTCACACCCGTAATCCCAGCACT
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GAGGTTG

SEQ ID NO: 2442 ACACAATGTGTAGCTCATATGAAAACCTCATGACAAGTCATTGAGTTCTGTAACTGCCATACAACTTACATGTGTAATATTAATTGCACAAAGTATATCAAGACATATTGAAGAAACACAAAATTAAGTGCTATTTTAACGGTTCATCTTTCAGTATGTGAATACGTATACAAATTTAACTGCACAGTTTTTGTGAAAATAAGTTTCAACAATAAGACTTCAGTTGTTAAATTAACCCAAAATATAA CTTTAATTAATTACATCACTACAATATTAATCTCTTATCTTGTTTACATTTTTGGTGTTTTGGGACT TTTGTAAAAAATCCAANTTCTAGAATTGCAAAAACCTTCATTGTTGCCACTGAGAGAGCAAC ATATNGTNCGCGGGGGGAGACCANANATCTANCGACTGAANCANATTGGCCAAACCGNGTGGG GT

SEQ ID NO: 2443 GATCTACCATGCAGTTGCAGCTCTAAGTGGCTTTGGCCTTCCCTTGGCATCCC AAGAAGCACTCATTTGCCCTTACTGNTCGTCTNAGCAAGGAGGANACTGTGCTGGCAACANTCCAN GCTCTGCAAAAGCATCCCACCTTGTCCCAACAGGCTGACCTGATGAGCATCTTGGAGGAAATTTG AGGACCTTGTTGCTCGGCTNNATGAACTCNGGGGGCGTNTATCTCNNNTTTAAAAAATGACTGG AAACAACATCCTTTTTTTGTGGGCTTGCCACCCTACAAAGCTCATTGNATCATNTNTGGGACTGA CCCATCCATTAANGGNAGGATNAGGTATCCAACCTTGATNAACCCNATCTTTAACAATAANTAAN TTTTGAATTCNCTCTTACTAANCNTTTAAACAGGGAGCCTCTTGCAACNTGGTTTCCTTTGAA

SEQ ID NO: 2444 GTACATACACACACACACACANCNCAGAGAGAANACAGAGAGAAANTCCTG GTCCAAAAGATCACATGACCTTACTAGTGTTCCTCCANTGACTGTAATTTATAAACTAAAAATTTT TACAAATCCACTGCTATCTTCTCTGTCCTGAGTTTNGGTNGACTTTAATGGATGCTCCAGCAATAA CCAGANTCTAGGACATGCAAACTCACTGTGAGCGAGAGGCTAGGGATCTGCCCTAACATAGGAAC CTGTTTCTAAGCCTGAATGAGGCAGCTNTGNTAGANTTAATGACAAATCAATGCCAGNGAAN TATTCTGCAAACAGGGTAGCTTTTGTGCTTTCTTTTINATTATTINNTTTTGGGGAGATAAAAGTTTT TGANCCATGGGTCTACTAATTTATCACTAAAGGACTGGGACCACATTCTNAGNAANACANCATGG TNNTTACTGTCCANGGAGGGAAAAATCCC

SEQ ID NO: 2445 ACCTTAAAAGTGTCTCACCTAGAAAGGCCTCTACCTGTAATCACATTAATTTTT CTAAAGACAATTTGGTGTTTTGAAGATAAATGTCATTAGTCTATGATAATAGCATCATAGGACAAT TAGCCATTTAGACTTGACCATATTTTCTCTTTTAGCATATAGCCATCTTGATATTTAGGTGGGAG ACTACTCCAATGGAGCAACAGTTTCATTTTACATGATTGGATTAAANAATTTACAAATTTTAAA CTCATAAGAATTCTTAAATAATTTNAAAAATNGAAACATTNNACCCANAGTCTANCANCNTAAATA NTTTTNAAAAATACCTTCATTG

SEQ ID NO: 2446 ACGGGTATCACTTTCGGGAGCTGGTGAAGATCATCAACGACAATGCCACATA CTGCCGTCTTGCCAGTTTATTGGAACCGAAGGGAACTGAATGAGGACAAGCTGGAGAAGCTGG AGGAGCTGACAATGGATGGGGCCAAGGCTAAGGCTATTCTGGATGCCTACGGTCTCCATGGCAT GGACATATCTGCCATTGACTTGATAAACATCENNAAGCTTTTCAGTCGTGTGGNGTCTTTTATCTG AATACCGNCAGANCCTACACACTTACCTGCGCTNCAAGATGAGCCAAGTAGCCCCACCCTGGCA CCCTAATTGGGGAANNCGGTAGGGCACNTNTNATNGNACATGCTGGANNCTNACCAACCTGNCAA TTATCNACATCCACAGTGCAAATCTTNGGGCTGAAAAAGCCCTGTTNA

SEQ ID NO: 2447 ACCAAAGCTCACTACTGCGGTTTGCCTGTGCCTGGACAATGAGGCGGAGCCA CTGTTGGGGCACCCCTTCCCTCCCCGGGTTTGCAAATAGAGGCTACCGGGTGCTGTATTAGCAA CACCTGTTTTACTATTTGTTATTAATACTATCATCTCCACCTTCCTTTTGATTAGCAATTTGTACACTG TGAACAGCTAAGTCGAGCTAATTAATATGCACTGCCACACATACTTGTCACTTTTTGGGGTGAGA CACTTAAATCTACTCTCTTAGTGTTTATTATTATTTTTTTGAGACGGAGTCTTGCTCTGCCGCCA GCTGGATGCATCGTGCAATCTCGGTTACTGCAACCTCCACCTCCAGGT

SEQ ID NO: 2448 ACTTTTACTTTTTTAAAAATTTCAAACCTTTTATAGTATTCTGCTAACATATCTCC TGTGAGGAACACTTAATACTGAATTTCCCTCAATAGCCAAGTCAGAATATACTTATTTTCAATTTT CACCCAAGTCTTTGTTTCTAAACGCATTATGTAGAATAGATTTGATCCGTACAGCATCTTGAGTA GCTAATGAGGTAGGAGTATTCTTAAGTTCTTAGGCTTANTGAAGCAAAGCAAAGACAATCAAAAT TACAAAGATTTTCTTTTGNAGTGGGTTGNNTTTTNAANNAAAAANNNGCTAAAAANCACTGGNAANT TGANCAATGCTACTAACATTAAAAAN

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SEQ ID NO: 2451 TACGGNCTGAGACATCACCGCCAAGCTGGGCATCGGGGAGATGGCCNAGAC
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SEQ ID NO: 2452 CCGGGCCATCATTTANTNATGGAATATATTCTGCGTTTATAAACTANTTTTT
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SEQ ID NO: 2453 ACTTTTTTTTTTTTTTTTTTTTTTNNNGGAATGCGTTTATTTTAAACAACCAAAA
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SEQ ID NO: 2454 ACAGGATGAATTTAAATGNGTTTTCTGAGAGACAAGGAAGACTTGGGTAT
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SEQ ID NO: 2455 ACTGAGGACATGGCTGTCTGAGCTGGTTTCTTATCTGCTCTGAAGGCATGCTTTG
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SEQ ID NO: 2456 ACTCATTTGTATTCACTGTCACTTTTTCTCATGTTCTAATTATAAATGACCAAA
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SEQ ID NO: 2457 ACGCTGGATAGCGTCCAGGCCAGAAAGAGAGAGTAGCGCGAGCACAGCTAA
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SEQ ID NO: 2458 ACAGCTAAGCGAACTTTAAGTAAAAAGGAACAGGAAGAATTAAAGAAAAAG
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SEQ ID NO: 2459 ACGCGGGGGAAGCTTGGACCGCATCCTAGCCGCCGACTCACACAAGGCAGGT
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SEQ ID NO: 2460 ACCTTATGGATTTGACCCACCTCATTCTGGACAAAGCCTCAGGAGGATCTCTT
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SEQ ID NO: 2463 ACGTTCAATCCGGGGAATGATGACATGTTCAATGGCATTTACACGCCTGTTGG
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NCT

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SEQ ID NO: 2466 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTTNCATTTGAACATTTAATAAAAAT
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SEQ ID NO: 2467 ACTTGTTAGGGAAAAAAGTTTGCACCCCAACCGTCTGTATCTTATG
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TGGCACTTGGAAAGACCCCTTCCCTCCCAAAAAGAAGACAGCTGCTTCCAGCAATGGGTCAAGAC
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TTGCTGCTAAAGTAGATTTGCTGGGGGAGTTCCAGAGTGCCCTTCCAAAGATCAATAGCCACCCAA
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SEQ ID NO: 2469 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAAAAAACTTTTAACAATTTATTAGTC
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GATTCCTTCAAAGCAAGTATTGCTTTACCCTTGTCTGAATGCAGNCCGTCATATNACCACTAATT
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CAAGAAAAANAT

SEQ ID NO: 2470 ACTTTTTTTTTTTTTTTTTTTTTTTCCNAAAGTGTTTATTTGCAATTTACATGGATT
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SEQ ID NO: 2471 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTAGGATAAAATACTATGCTTTAATGAN
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SEQ ID NO: 2472 ACTTTTTTTTTTTTTTTTTTTTTCTGGGACTCTGGAGATGCCGAAGCACACGCCTT
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GACAACTGGAAGACTTCAGTCTGGAGTGAATACTTTGCAGGGGTTCAAAGAGGATAAAAGGAACA
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TGTCNTTCTGAA

SEQ ID NO: 2473 ACTGAAGAACATTCCTATGGATATCGGTAACTTGCCCTCCACAGCATGTAA
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CATAGCAGCAACACAGTCAGTAACCAACTTGTTGCTATGGGATCGAGTAGTTGTGATAATGTGTTT
CCCAGCAGGGACTTCTTTCAGCTGAAACCCAAAGGCGCCTAAACCTAAAACCTCCCAAGATTGTCCT
CCCCAACACAGCATCTGGTCTGCTCATAGTTGTAATATGGCTGGTTAATAACTCCTGCTATGGC
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SEQ ID NO: 2474 ACGCGGGCAACATGACTGTCTTTAAACTCCAGTGCGCTGGCCAGGCACGGTA
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CAAGACCANCTGGCCAACATGGGGAAACCTGTCTTTACTAAAAATATAAAATTAGCTGGGTG
TGGTGGCNG

SEQ ID NO: 2475 ACTTTTTTTTTTTTTTTTTTTTTTTNGGTTTTTTTTTTTCCACACCTGCCCTTTATT
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SEQ ID NO: 2476 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGNTTCAAAAGGGTGTTTACTATTTGG
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SEQ ID NO: 2477 ACCGGACCCTGCAGCCGCAGAGATGTTGATGCCTAAGAAGAACCGGATTGCC
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CCCAAGGCTACGTGAAGGAACAGTTCGCCTGNAGACATTTNTACTGGTACTATTTTTTTTTNTTTA

SEQ ID NO: 2478 ACGGGTATCACTTTCCGGAGCTGGTGAAGATCATCAACGACAATGCCACATA
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SEQ ID NO: 2479 ACAGGAGATCTCATTTGGGACAACATAAGGATAAAATGCTGGTCATCGAGCAG
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TTTCCAGACCCT

SEQ ID NO: 2480 ACCATAGGATTTTGGAAGATGGTATCATCAATTCTTCTAGTTAGTGATGGTGT
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SEQ ID NO: 2481 ACGCGGGGTCTTTTCTCGGGACGGGAGAGGCCGTGTAGCGTCGCCGTTACTC
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SEQ ID NO: 2482 ACGCGGGGTTCTCCCCAGATGACAAATACTCTCGACACCCGAATCACCATCAA
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SEQ ID NO: 2483 ACTTTTTTTTTTTTTTTTTTTTTTNGGAATCCTAACTCTATTAATAGTGTTGATACA
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SEQ ID NO: 2484 ACTTTTTTTTTTTTTTTTTTTTTTNGCCAAAGACAAACTANAGCAATGCCTATGTAA
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TGNTGGTTTTTATACANATAAAATAACCACATTNTCCCATACATTTTTTATAGGCTNTCCNAANGNT
NTAAAA

SEQ ID NO: 2485 ACCAACCTGGCTACTGGAATCCCCAGTAGTAAAGTGAAATATTCAAGGCTCT
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SEQ ID NO: 2486 GGTACTTATATAAAATCTAGTCCAGTTCTCTCATTTAANAAAATGAAGACACT
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SEQ ID NO: 2487 ACTTTTTTTTTTTTTTTTTTTTTTGGAGCTGAGACCAGGAGAAATAACTTTATT
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CTGCTGGGGAATGTATTTGCCACTAAATTCCCCAAGTATGCCAACATTACAAAAAGATAGGTTTT
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SEQ ID NO: 2488 GGTACTTTTTTTTTTTTTTTTTTTTTTGGNTCCANNGATCCTTTACTGAGA
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CAATGTAGAAGTCAACCTCTGAGGCTGAGTGAATTCACCATCCAGGGCTGAAAAACCCGCTGGC
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GGCTAAGAAGCCACCCNCTTNGNCCCAGGCATNGGNGGGNTTAAACTTTNAGAAACCTCGGTNGN
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SEQ ID NO: 2489 ACAGGCCCTTTGATGGCTTGGGTACAGACAACCTCATAGCTGGTGCACCAC
ACACACGAGATAAAACAGGAAGCCTAAAAACCCCAAGCCACACCAAGAAAAATGAGAGAGGGG
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SEQ ID NO: 2490 GGTACCTCTTGGAAAACCTCAATGCAAGATAGGGTTTCAGTGCTGGCATATTT
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SEQ ID NO: 2491 GGTACAACTGATTTTTTAATGGAAATATATTANNATGACCTGTATAAATTATG
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SEQ ID NO: 2492 GGGACTTTTTTTTTTTTTTTTTTTTTTTNTACNGATACAATTGGCTTTTATTTGC
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SEQ ID NO: 2493 ACTTTTTTTTTTTTTTTTTTTTTTTTTTNTACTTTTTTTTTTTTTTTTTTTTTT
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SEQ ID NO: 2494 GGTACACTTGAAACCAAATTTCTAAAACTTGTTTTTCTTAAAAAATAGTTGTT
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SEQ ID NO: 2495 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGTGTGGGTTTAGTAATGGGGTTTGT
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SEQ ID NO: 2496 ACATTCTAGCTGAGAAGCAATGGGTCACTCATTAAATGAATCACATTTTTTTAT
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CAA

SEQ ID NO: 2497 ACAGCCAGCAAAGGGCGCTATATTCCTCCTCATTTAAGGAACCGAGAAGCTA
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SEQ ID NO: 2498 CGAGGTACTGGCTGGGATGGCTCTGATATAGCAGCCTTGGTGATGTTTCTGCA
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CTCTTTAATTTGGTAAGATAATGCTGNAACTAGAATTTCACAATCAGCGCCTTGTGCAGGTAATTT
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SEQ ID NO: 2499 GGTACACTTGAAACCAAATTTCTAAAACTTGTTTTTCTTAAAAAATAGTTGTT
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SEQ ID NO: 2500 GGTACTTTTTTTTTTTTTTTTTTTGTAGATACAATTGGCTTTTATTTGTGATTCA
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SEQ ID NO: 2505 NCNAGCGGCCGCCCNNGNCNNGNACGCGGGCATGTGCNCCTATGGCNCACCC
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SEQ ID NO: 2507 ACTTTTTTTTAAGCAATGGGTACCGNATTAATGAATCACATTTTTTTTATGCTC
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SEQ ID NO: 2508 ACGCGGGGGCAGAGAGGCTGTTTCGAGAGCTGCGGAAGATGAATGCCAGAG
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SEQ ID NO: 2509 GGTACTATACTCTGTATTCTCACAAATAGAGAAGACTAATATTGCAGACCTG
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SEQ ID NO: 2510 ACGCGGGGACTCAGAAGCTTGGACCGCATCCTAGCCGCCGACTCACACAAGG
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NAGGTACC

SEQ ID NO: 2511 ACACTTGAAACCAAATTTCTAAAACCTGTTTTTCTTAAAAAATAGTTGTTGTA
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SEQ ID NO: 2512 GGTACTTGAGTTCAAATGATAAACTTGAAGTTGTAGGCTTGGAAGAGTATC
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SEQ ID NO: 2513 ACGCGGGGGCCAAACACCTTCCTGACACCATGAGGGCCAGCAGCTTCTTGAT
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SEQ ID NO: 2514 ACGCGGGGGTATTCTTTCCCAAGTCTCTATGGTAGCGTCAGCGTCGGAGGC
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SEQ ID NO: 2515 ACCCACTGATTTTATTTATGTGCAACAAGAAGTGTCAGCAACTGCACAAACTC
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SEQ ID NO: 2516 GGTACATGTGCCACATTTTCTTAATCTGGTCTATCATTGTTGGACATTTGGGT
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SEQ ID NO: 2517 ACTGTGGTGTGTGAGTCTCAGCAGCCGCCACACGCTCCTAACTCTGCTGCAT
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SEQ ID NO: 2521 GGTACAAGATCTACCCCGGACACGGGAGGCGCTACGCCAGGACCGACGGGA
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SEQ ID NO: 2527 ACAAATTCCAGTGTGCAGACCACAACCTCAAAACAAAAAAGGTTGGTCATGC
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ACTTGAGCTTTAGCAAATTAAGAAGTTTGAAGTCTTTNAAAGTCTTGAAGTCTTAAAGCCCATGG
ATCCNTTTTNANAAAAAAACTGTAAAATTTTTTTGGACAGCNTTACTGTTACCANGGTTTGATAA
CAAAG

SEQ ID NO: 2528 ACTGATGCTGAAAAATCAATAAGATTAACCCAGAAATTGGCTCAATAAGAAA
CCAGGGACTCCCAAAGGGGGTTTTACAATTCAGAAACAGGAAAAAATTAGAAAGTGGTTTATTTG
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CATTACCTACAAATTGATATTAGGTGGTCTACAGCTTGTAATTGATGTGCTTCATGATAAAGATGG
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SEQ ID NO: 2529 GGTACGCGGGGATTTCTCCCGGAACCTCTGCTCAGCCTGGTGAACCACACAG
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CTCAGCCCAAAGCTGATGAGGACAGACCAGCTGAAATTGGGTGGAGGACCGTTCTCTGTCCCCAG
 GTCCTGTCTCTGCACAGAACTTGAAGTCCAGGATGGAATCTTCTCTCTCTGCTGGGACTCCTTTG
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 NGCGAAAT

SEQ ID NO: 2530 CGAGGTACGCGGGAGCTCAGTGTGATTCAATAGTGATATGTAAGTGCCTCA
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 CAACCTGCCTGTTTATAGGTGAACTAATGCACCAATTATTCATTCAATTTACAGAGAACTTAAG
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 AAACACATCCGTATTACTCGCATCAGGAGTATCAATCACCTGAGCTCACCATAGTCTAATAGAAA
 ACAACCGAAACNAATAATTTCAAGCCCTGNTTATTCAATTTTACTGGGGCTCTATTTTACCCTCTA
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 CTANTGGATCCANCTTGGACCAACCTGGGGTATCATGGCATACTGGTTCTCTGGGGNAAATGTTCC
 GTCCAATTCCNCANNTANAACCGGAACCTAAANNTNAAACNNGGNGCNATGAAG

SEQ ID NO: 2531 CGAGGTACTGGTTTTGGATTAGGAATTGTTTTCTCACTTACCTTCTTTAAAAG
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 GAGAACATCCCAGCGGGAGGACAAGAGAAATCATGTTTATTCCTCAGGAATACTGAAGTGCCCTG
 GAGTAAGCTGCCATTCTTCTGTAACAATGTTATCAAGTAATGCTTTAACTCCAGCACCTGGTTAT
 GCATTTGAAACCAAGTCTGGTTCTTNGNNTTGNATTTTCTCTCTGGAAAGTTGTAAGGAGGTGGTC
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 CNGGCCGNGCNTCNAAGGGNGAATTTCAACNAACTGGCGGGCCNTACTATTGGATNCTANCTT
 GNTCCCATCTTNCGTNATCATGGGCANNNCTGTCCCTGTGGGAAAATGTCNNCTCNAATCCCTC
 ANTTANANCNGGANCTTAANTTTAANCCTGGGNTCNAATNGNGGCNACNCNNTTATTGGTTNNN
 NNTGNCCTTTTCNCGNAACTTTTTCNTCTTTNTANNTGCCCC

SEQ ID NO: 2532 ACATATTAGAAGTCTAAGGAGTAGCAAGTCAGTGGGAGGACTTTTTACCC
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 TTTTGCAAGAAAGTTAGGATTTTATTGNCTTATTTCTTTACAGGTCTGCAGTTCATCAGAGTANT
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 TNNNTNTTNTNANTTANNNTNCCATNNNAATAAATAAATAAATAAATAAATAAATAAATAAATAA
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SEQ ID NO: 2533 GGTACTGGTTTTCTGAGAAACAGTCCCTCGTGAAGTGACAGTAGCTCAGAG
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 GCTTAATTTAAAGACATTGGATTACCTTTGGATCCATTGTCAACTGGAAGTGCTGCTTCATTCCA
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 AATTAAGTAACTAAACACTTTTGCCCTNACTGATACATTTCAGAATGGGCTTTTNAAGGCTTG
 ATCCNGTTTTAAATAGNGTTATTTAAAAACAANTATTCCANANNTTATNTTTTCTGGGNCTTTTCAA
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SEQ ID NO: 2534 CGAGGTACTTTGACTTACTAGGGTGATTCAAAGTTTCAGGAAAAAGAAATT
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 CTGGATTTTGTCTCAATTCTTCATTAACCTTTACAGTCTTCAGCAAATCCCTTAACTTTGAGCTTCTA
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TCCTANTGGGGGTTTACCNCAANGCCAGGNCCNNNGTCCT

SEQ ID NO: 2535 CGAGGTACCCTCCAGGTCATGGTGATATTTACGCCAGTTTCTACAACCTCTGGA
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GCCACAGTGGATCTGTATATCTTAATCATCTAATGAACCCACCCAATGGAAAACGCTGTGAATTT
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SEQ ID NO: 2536 ACGCGGGGGGAGACGTGCTAGCGCGTCGAAGGTAGCTCTATGGTTTTCTCG
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CGGCGTGTACAGGAATTCGAAITTAGAGTTTAAITTTCTCAGAGCATTCTCTCCAGGAAGAATTTTA
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SEQ ID NO: 2537 ACATGCAGAGGTAAAGCTGAAGCTGGCCAGGGGATGGCTACAGTTCATGATC
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GGCACACTGTGAGCTGAAGCTGAAGTTTCCCAAAGGGTGAGTACATTACACACCAAGTGAATAGTA
ACAGATTGTTAGTATGTTCAAGCTTTGTGTTGCATGATGGTAACTATAGAGTTTGCGGGTCAGTTG
TTTGACAGAGGAATCCAGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAAGACAAAGTCTGAAT
GCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAAGTCAACTTCAATGTCNGATGGATGAAACC
CAAACACATAGCAATTCAGGAAATTTGACTTTCCNCTCTNTGCTGGATGACGTGAGTAACCCTGAAT
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GCTTTGGTCCAACTTTGGGTANNNT

SEQ ID NO: 2538 ACCGTCCAGCGAGTTGCAGATCTACACTTGGATGGATGCAACCTTGAAAGAA
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TGGGGGGCGGTCTTATGGATCCAACCTTGGTCCNACTTGGGGNAACATGGGCTAACTGGTCTGGG
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SEQ ID NO: 2539 ACGTGGGCACAACCTCCACCTCCTGGACTCAAGCAATCCTCCCACCTCAGCCT
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AAGCAAGGGCTTGTGAANTGATGGATGCTGTNGAACAAAACAAAGTNTNGCAGGATGGACAGA
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GGAAAANNTGGGCCCATGANGGGGGAANCCAGGNTNNGGGGACCCCTNAAGGG

SEQ ID NO: 2540 ACCATTCCTTCTGAACTATTCCAATCAATAGAAAAAGAGGGAATCCTCCCT
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GAATCCAGCAGCACATCAAAAAGCTTATCCACCATGATCAAGTGGGCTTCATCCCTGGGATGCAA
GGCTGGTTCAACATATGCAAATCAATAAACGTAATCCAGCATATACACAGAACCAAGACAAAAA
CCACATGATTATCTCAATAGATGCAGAAAAGGCCCTTTGACAAAATTCAACAACGCTTCATGCTAG
AACTCTCAATAAATGAGGTATTGATGGGATGTATCTCAAAAATAATAAGAGCTTTCTATGACAAA
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NANGGGGGGCCNTTTTTACCATTCTATTTAAATATNGTTGGAAATTTTGGCCGGGCCNTTTGCCN
GGAAAGGAATAANGGGTTNCATTTGAAAAAAGGACCCAANTTGC

SEQ ID NO: 2541 GGTACCCTTAAACTGGCAGGACATTTTTGAAATCACAAATTTGCACATAAAG
AATGTCACGAACAGCCATGTATCCATATACAGCAATCAAATAAGGAACTTATGACCTAAAGCAAA
GGTAAACTTTCTTGAACTTAACATTCTATACCAACTAGGCAACCTCTGCCCAGGATGAGAGTTGG
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AGTTTTTAAAGACTGCTTGTCAACTATAGCTGCAGCCTATATCCCACTATGGAAAAAAGTAAAT
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SEQ ID NO: 2542 GGTACAGTTTCCCTTCTCCAGGGTGACAGATGAGCCTTTTCCGAAGTTCTCAG
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AAGTTTCCCAGGATCCCGATGTTGTCATACACTCCGAACATGGCCCCTTTCTCGTTCCAACGATCA
ACCCTTTGGGGGGCGGGAGAGTGAGCCTTATACCGATCAATCTAGGCACACCAAGAAAGAAAGCT
CTGACAGCCAGAAGCAGCCAGTCCCACAGGCGCTACCTGGCCCGGATNAGANGTCCCTGCCA
TTTTTTNTAGTNTCCCCNTNAACAGGACACCCAAATTAGCCCCAAAAAATGACAGGAACCGNC
CCCGGCCAACTTTANAACAATTCCCTGCCCGGGNGGGCCGTTTAAAGGGGNAATTCAACCACCTG
GGGGGGCGTTNTATNNGGACCCGGCNCGGGNCCAACCTGGGGGNNN

SEQ ID NO: 2543 ACTGGAAGTGCTATATAATGCAGTGTTAAAAAAGAAATAAAATGCA
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GGTAGATGATAAAAAAGGAATTGGACATCAAGTCAATTAAGACACGGAGAAACCCATAATGCTTA
TTGTTAAGTGAAAAACCAATCTGAAAAGGCTTTCTATTTGTATGATTGCAATTATATGACATTTTGG
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TTCANCCACTGGCGGCCGTATTATGGATCCGNTCCGTNCCANCCTTGGNGNATCATGGCCANACT
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NCCCANTAAAGAAN

SEQ ID NO: 2544 GGTACAGGTTAGGGGGCGGGGTGGGCCAAGAAGGCAATCATTGGGCAGAA
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CTGTGTCACTCATAAGAAGTGACAAGAGTGCAACCTGTCTCTCTCCCTCCCCCTCATGCACACAGAG
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AACTATGTTACTGGCACCTTGATCTTGGAATTTCCAGGCTCTAGAATCATGAGCAATACATTTAT
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AGGTAGGAGGATTGATTGAGGCCAAGAGTTAAAGACCAGCCTGGTCAATATACAAGAACCCTNT
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SEQ ID NO: 2545 CGAGGTAAGTATGCTGAAAAATCAATAAGATTAAACCCAGAAATTGGCTCAAT
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TAAACTTCCNGGGTCTTTTTTTTCTTNTTCCANGGGGNNTAACTGG

SEQ ID NO: 2546 ACGAGCAGCTGTCTGGGAAGTAGGGGGTTAGCTTGGGGACCTGAACTGTCTT
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CCTTGGCATGGGTGAGACCTGACCAGTCAGATGGTAGTTGAGGGTGACTTTTCTGCTGCCTGGCC
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NCTAATTTTTTAANTTTTTTNAAAAACNGGNTTTTNCNGTTNGCCAAAGGTTGGTTTNAAAANTTG
GGTTAAANGAACCTTTCCNCNC

SEQ ID NO: 2547 GGTACTGAANGGCTGGAGACAACACTTTATCACGTTTGGACTGACAGGAG
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NCCTGCTGCGTCAAACCTGAGGGCTCTTACNGACAGCTTTCGAAGACGGGACTACTGCTACCAAGG
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GGNCCCAACCTNGGGGAANCATTNGNCANTACCTNTTTCNTTGGGGAAAATTNNTTTCCNTNNA
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SEQ ID NO: 2548 ACTCAAGTTTATAATGTCCCCAAACCTTAAGACTAGAAAAATCATCCCAAGAA
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GTCTGAGCTCAAGTGGTGTAAGACAGNTCTTTCTTCTCTCCTTTAAACTCTTNACTTTGCTCTAA
CACGGAAGATGGGGGACAGTGATCCCGAAGGTTTACTAAAATATTGCAGCTTTCAGTANTTATGA
NGAAGCNCATATATNACTNNAAGAAAGCNATCATTTGGAGTNNCTCNGGCCGCNACCACGCTA
AA

SEQ ID NO: 2549 ACGCGGGAGCTACGGGCATGCAGTGGACCTATGAGCAGAGGAAAAATCGTGG
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SEQ ID NO: 2550 ACTGGATTTAACTACCTTTGGCTTAATTCCAATCATTGTTAAAGTAAAAACAA
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CTCAAACNAAANTGGGGACATNTTGTGNTGNTGCCNTAGGAATTTCTNAGGAAATTTCTNAGNCTNNNGCCN
NCNGNCTTTCTTNAANTTANGGCCNNAGGNTNNGCTANTTGATTTTTCTCTTTNCCTCTTTTGGG
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SEQ ID NO: 2551 ACGCGGGAGGCATTGAGGCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGCAG
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GCTTAAGATTTTAAGAGAAAATATGAAGACTTAGAAGAGTAGCATGAGGAAGGAAAAGATAAAA
GGTTTCTAAAACATGACGGAGGTTGAGATGAAGCTTCTTCATGGAGTAAAAATGTATTTAAAG

AAAATTGAGAGAAAGGACTACAGAGCCCCGAATTAATCCAATTTGAANGGCCAATG

SEQ ID NO: 2552 ACGCNGGGAACGCTGGGAAACTCCCGGCCTCCGCCACCATCTTGCTTTCCCTT
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SEQ ID NO: 2553 ACCCATGGAGCTGGGCTAAGTAAATAGGAATTGGTTTCACGCCTGAGGCAA
TTAGACACTTTGGAAGATGGCATAACCTGTCTCACCTGGACTTAAGCGTCTGGCTCTAATTCACAA
GTGCTCTTTTCTCCTCACTGTATCCAGGTTCCCTCCCAGAGGAGCCACCACTTCTCATGGGTGGCA
CTCAGTCTCTCTTCTCTCCAGCTGACTAAACTTTTTTCTGNACTTNATTTTTTTTTNTNNTCTTTTT
GGGGTTTTAAACTTTTTATTTGCACATTAATAAAATTTGTGCATTCCAATAATTAATAATCATTTGAA
CAAAAAAAAAAATGGCACTCTGATTAACTGCATTACAGCCCTGAGGACACCTTGGGCCAGCTTG
GTTTACTTTANATTTCACTGNCGTCCACCCCACTTTTTCCCCCACTTNTTCTTTTACAACANTGCA
NGTTTTTTTNTTNCCTGCNAGCNAAAAATAANTAANACAANTGGGNAAAGGNANGCNCCGGCCTT
TNGTNNNNTAGTTTTTNGNGGAAAGGGGGGGGNAGCNTTAAACTGGTCCNCCCTTGGTTTTTN
AAGNTNANCCGCNTAANAAATNAA

SEQ ID NO: 2554 CGAGGACAAGGCAGCTGGCAACGTTCCCTTCAAGACACAGAGGAGAAATCC
AGATCATTCTCAGCTCCCAGGCAGACCCACTCAGTGATCCTGATCAGATGAACGAGGACAAGCG
CCATTCACAGGGCACATTCACCAGTGACTACAGCAAGTATCTGGACTCCAGGCGTGCCCAAGATT
TTGTGCAGTGGTTGATGAATACCAAGAGGAACAGGAATAACATTGCCAAACGTCACGATGAATTT
GAGAGACATGCTGAAGGGACCTTTACCAGTGATGTAAGTCTTATTTGGAAGGCCAAGCTGCCAA
GGAATTCATTGCTTGGCTGGTGAAAGGCCCGAGGAAGGCGAGATTTCCAGAAAGAGGTGCGCCATT
GTTGAAAAAATTTGGCCCGCAGACATGTGATGGGTCTTTCTCTGATGAGATGAACACCATTCTTG
ATAATCTTTCCCGNCAGGGACTTTTTNAACTNGGTTGNTTCANACCAAAATCACTGGCCAGGAAAT
TACTTTTTTACTTTTCAAGAACATTTTACACATTANCTNTTACCCCGNNGGGTTNTTTGNAAAGTT
AANANCNTGGAATTTAAAGGGGTNTTNTNGGGCCCTTTGTTNTTNTCCCN

SEQ ID NO: 2555 GGTACGGATCACGCTTTCCCCAGGATGACCTCTGCCAGTATATCACATCAGAT
GACCTCACTCAGATGCTGGACAACCTAGGGCTTAAGTATGAGTGCTATGACCTTTTGTCCACCATG
GATATATCTGACTGCTTTATTGATGGTAATGAAAATGGAGACCTGCTTTGGGATTTTTTGAAGTAA
ACCTGCAACTTTAATGCCACAGCACCAGCTGATCTCAGAGCAGAGCTTGGGAAAGATCTACAAGA
GCCTGAATTTAGTGCTAAGAAAGAGGGGAAGGTTCTTTTAATAATACTCTGAGTTTCATAGTGATT
GAGGCATAACTNTCAATCACAAAAGTATATTCAAAAATTATATTTTGAACAACTCGAATCACTCAT
TTATTTCCATATTAATAATCACAACTCATCCATAATGTAGATAANGCACTGTTTGGATATGAGATG
TAGCAAATTCAATTCATTATTGGACTTNCATTGGAATCATATGGGAACTGNTGGCTTATCNCGNC
CCTCNTCCAGGTAGAGAGACCACAAGCGGCTCACATACCTTAGCTNNAAANTTGATGACGGATTT
TTTGGCTNTTGTAAAAAATTCATCCCTTTGNTGATNGCTGAATTNNTGAANCNTNTAAATCCTTCTT
TGNTTCTTTTGGGAGNTGCCNTACNA

SEQ ID NO: 2556 GGTACTTTGAAAATTGAAACTGGATCAGTGTGTGACGGGACTGTCAACTGAA
AAATGAATTTGAGTTGGGAAACCAAAACATGAACAGCAGCAGCAGTAGTGAAGCCACTGATGAG
GGACTCAGACAGGTATATCACTACAAATCCAATCCGCAGAATCCCAAAAGCCAACTGGATGATTC
CAGAAAGCACTGTGACTGATGCCGCGCCGNCACCCTCACCTCTCGTCATCCAGTAGTGAAGAAT
NATTCGAGTTGTTAGGCAATCCCAAAGTAGTTGCATTGCGATCTGGGACTGCTTTTGAAGTGTCTC
CTGAAACTGCTNGTCCCACCATCATTACTCNAATCNGAAACNNGCCCCCGGATATTGTGTCTGGA
AAGTGCCGAAGAAAAAGTAGATTATGGCTGGGAAAAAANGATGCATNCAACCCATAGACTGNGGG
AATGTGACCAAGCAGANCAAAATGCTTAACCTTGATATACCTGCCCCGGCGCNNTTCAAGGGCA
NTCCAACTCACTGNCNCCGTTCTANTGGNTCCNATCTTCNGTACCAAACTNTGGNGNTATCATN
GTCTNTNCTGGTCTTNGGGGAAATTNGTNTCCCTTCCAATTCCCNANANACNAACCCGAANCA
TAAATGGTAANNCTNNGGGGCCCTTANNGGNACNTTNTTNGGGGNCNNG

SEQ ID NO: 2557 GGTACAGTTGATCCCACTTTGGAATAAATGCCCAGAAAGGTAATAAGCATTAT
CAGTGAGTGAGAGCTCTAGGCACAAAATAAGTTCTCATTACAGAAAGTGGACAGAGATATGAAGCA
GTGAAACATATAGCTTTAAAACTGGAAATCATTCATGACATTTGTTTTCAAAGTAAACATTATCT

GCATTTCAAGAACTGTAATTTTCAAAAAGTAGAATCAGGCCTGATTAAGTAATATTTATGACTTACA
GATAAAATTNCAAAAAATAAAATGAAAACCTCTCTGCCCTTGAAAAGAGATNGAAAACTATATTTT
TTTCCCTGTAATGTCACAGAGATTTCAGTATTTTCATCCTTACCGTCGCTTAAAAAATGTTATTTT
TAATTCGNCTTTCTGNTCTGCCACTTTTACATAGCAAAAACCGTGTTAATNTGGCCCTCTCTNCTG
AGTGNAAGGATGTNTTATTTACNGNCATGAATGNNAAAAAACTTCAATTTTACCTCCATTGGGGTG
NTATTTACCCACNTTAGGAAAAAAAAGATTANGAANCCGGTTTTTCNNTATCCNNTNGNACNTAC
CTTCCTANNAAAANTCCTTNCCCCGGCGGGCCGTTNGANGGGCGATTTCGNCCNCTGGNGGCGTTTTA
ANNNGTTCGNNGGNTCTAANTTGGNTANTATGGCATTCTTNTCNTGNNGAA

SEQ ID NO: 2558 ACCACCACGCCAGCTGATTTTGTATTTTATGATAGAGATGGGATTTACCATG
ACGGCCAAGCTGGTTTCAGATTCTGACCTCAAGTGATCTGCCACCTCGGCCTCCCAAACCTGCTA
GGATTACAGGAGTTAGCCACCGTGCCAGCCTACTGTTGATATTTTCTTAAGGCCAAAGGGCTCTT
NAAACAGCTTGTGGTGAATGCCACCTANTCAGGGATTACCCCTTAAGTGACAGNGGGCANCCCTCT
CTNCCTGGGCAAAGTTCANAAATGCCATNCAANGAGCCAAGTCTTGGAATTGGAAACCCCAAGAA
GTCTGCTTAGTGCTCTACACCTGTGGCTTANCTGCTATCTAAAAGTGAAGTCAANGTNCCTTTT
ACTTTTCCCTCTCTTTTCTCACACAANAAGGNAGTTTTACCCCNATCCACCCACAAGCTNGGAAA
TGTGCTGANTCTTANCNTGANGCCNCATGTCCTAATGTTCCAACCCCAAGGCCCTANTGGTATNTN
TGGATATTGTACTNGCTTTTAAGGGCCAAAGGTTTTANCTATCAAGNTGATGNAATCTTNCANGAN
TTAGNTTATTTCTTCAAGGAGNGGTANTCTTNCNTCAANGATGNGCTNGAAATNTNCAGAACT
AAGGTTTGAAAGGGGGNTGNNAANCTTTCCATTANCGTGTTNGTNNNAAGG

SEQ ID NO: 2559 CGAGGTACTTTTTTTTTTTTTTTTTTTTGGTTTATGCAACTTTATTGAAGAAA
AATAAATCAATTACTAGCAGAGCTATTAGTTGATCACTCATCCATTGACAACCTNGCATCATTTATT
CAGNGCTATATTAAACAGTGTATTGGAAGATANATTAATAAGCTCCAAGCCTCCTAACCAATTT
AAATGAAAATTACAAAATGTTTGAGACCTATTTTGAATACAAAGGGNGTTGACTTCCAATTC
CATTTCTGTANAAACAAGAACAGGTCATTCCTTTATTGACATGCATAAAAATACATCACATTTTCTG
NTCTGCTGANGCTATAAAATCANTACCAATTNTCCAGCCACATCANTTATGAGCATAAAGCATATC
ATGTGACCTCAAAATCTTTAACAGTGGAANGNTTAAACAAGAATGGATGCTGCTNAANAATNGNG
TATCCCTTTGATGNGGCACCNGANATTCATNTCCCTCCCTGAAATGATTTTTTTCNNCATGGTANA
ACATGGNGGAATGGGTTTAGCCTNTTACCAANTTAANGGGANACTTGGCCCTANACCNACGCC
TTTTTTTTTAAAAAATTGANNTTTGGGAACTNTNNTTGAAACTTTACNGNTTNAACNGTTTGC
CCAAGNGGGNAACTAATNTTAANAACCNNGANNAGG

SEQ ID NO: 2560 ACTATACTCTGTATTCTCACAAATAGAGAAGACTAATATTGCAGACCTGGTG
ACAGCTCTGATTGTCCTTTTGGTTGTATCCATTGTTAAAGAAATAAATCAGCGCTTCAAAGACAAA
CTTCCAGTGCCCATTCGAATTCATTATGACCGTGATTGCAGCAGGTGATCCTACGGCTGT
GACTTTAAAAACAGGTTTAAAGTGGCTGTGGTTGGGGACATGAATCCTGGATTTTCAGCCCCCTATT
ACACCTGACGTGGAGACTTTCCAAAACACCGTANGAGATTGCTTCGGCATCGCAATGGTTGCATT
GCAGTGGCCTTTTCAAGTTGCCAGCGTCTATTCCCTCAAATACGATTATCCACTTGATGGCAATCA
NGAGTTAATATCCTTGGGACTGGGTAACATATTCT

SEQ ID NO: 2561 ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTACCAAACAAACGATGAAGTCTCA
GGAGTAAAGTTGATACACAAGTAAATTTATTGGTAATGTTTTTGTGTGGTCTTTAAGCAGAGGG
AAAATTAGTCTGATTATGGTGTATCCAGACTAAATAAATGATATTAAAAATGAAATTATCCTTAGG
ATTTACAATCTTAGAGAAAACTTTTTCAATTTTTTTGAGTTACAAATTATCTTCACTTACATTTGAG
AACAGTGAGTCACAGAGGGATTAAGTATNTTACTCAAGATCTTGCAAGTGTGTTGGTTTGAACCCAA
TCTTTTCACTCTGCAGAACTCAAGAGTCACTCTTNTTGGAACTTTTAACTGATGTGGATCCTCT
AATATGGGCTTNTCTATTATTNATTCCGGATTAGTCAGAAGTTTGCAAGCAGGCAGAATTCANTTTG
CCAATACNGGATTTTTCNTCAGCCCCCGTCTTTTTTTTTTTTTTTTTTTTTTTTNTANGAANGGNT
NACTTGATTTTTTTTCCCTAAGGGGGGGNANANAANGATTNCTTAATAAATNGNAATTACNTCCNC
CATNTTTTTAAAAAGCCCNNTAAAAAAGTTTNTTTNAANTTTTTGGGTCCAAATCAAANGTTGGGN
AAATTAATAAAAAA

SEQ ID NO: 2562 GGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGCAGTTGATTCCAGTTCACGAGC
GCTCTCGGTAGCTCAGGAAAGCGACATAGTCTCTAGCACTTAGTCCCTCTCCTACAATGCAAAGCA
AAAAAGACTGTGGCTCCAGGACTNTCTGTGGGCGGAATCGGCACTAAGGAGTTGGTGCAATTATT
TTGTTGCAAGGNAGGAAGCCAAAAAGCCTGCATGCAACAGACTGGCATGAATAAATGTATGTTTC
CCCCCTCCTTCTGCAAGAAGGGAGCTGGTAATGGCAGGAGTTTCTCCAGTGCAGACTCTTAAAGA
GCGTGCAAGAACTAGAGACCCGACAGCGAAACAGGCCTTCCCTCCTCACACACAGTTTCTCTTGCT
GCAGCTTANAACCCCCCGCTCTGCCGGGCGGGCGC